

nucleic - nucleic search, using sw mode!					
on: January 31, 2004, 13:36:50 ; Search time 95 Seconds (without alignments) 6328.040 Million cell updates/sec					
title:	US-10-084-406-1	refr. score:	1362	DB seq length: <td>0</td>	0
Sequence:	1 atgaaagatccaatgttta.....	DB seq length:	2000000000	Maximum Match 10%	
scoring table:	IDENTITY_NUC	Gapop:	10.0	Gapext:	1.0
archived:	569978 seqs, 220691566 residues	Total number of hits satisfying chosen parameters:	1139956	Maximum Match 10%	
Post-processing: Minimum Match 10% Listing first 45 summaries					
database :	Issued Patents NA: *				
1:	/cggn2_6/prodata/1/ina/5A COMB. seq:*	14.1	2128	3	US-09-233-506-1
2:	/cggn2_6/prodata/1/ina/5B COMB. seq:*	13.6	1807	1	US-08-118-906-13
3:	/cggn2_6/prodata/1/ina/6A COMB. seq:*	13.6	1807	1	US-08-186-196-13
4:	/cggn2_6/prodata/1/ina/6B COMB. seq:*	13.6	1807	1	US-08-188-135-13
5:	/cggn2_6/prodata/1/ina/PC7US COMB. seq:*	13.6	1807	2	US-08-474-015-13
6:	/cggn2_6/prodata/1/ina/backfile1.seq:*	12.6	2105	1	US-07-955-011-3
7:		12.6	2105	1	US-08-227-455-3
8:		12.6	2105	1	US-08-472-482-3
9:		12.6	2105	1	US-08-487-065-3
10:		11.8	2102	3	US-09-063-237-3
11:		9.9	378	1	US-08-118-906-1
12:		8.9	378	1	US-08-486-196-1
13:		8.9	378	1	US-08-488-135-1
14:		8.9	378	2	US-08-474-065-1
15:		6.8	378	1	US-08-118-906-3
16:		6.8	378	1	US-08-486-196-3
17:		6.8	378	1	US-08-488-135-3
18:		6.8	378	2	US-08-474-065-3
19:		5.9	997	4	US-09-149-476-307
20:		3.9	192	3	US-09-223-505-9
21:		3.6	777	4	US-09-149-476-181
22:		3.4	6171	4	US-08-961-522-37
23:		3.1	99	1	US-08-118-906-5
24:		3.1	99	1	US-08-486-196-5
25:		3.1	99	1	US-08-488-135-5
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C	29	35.2	2.6	99	1	US-08-118-906-7	Sequence 7, AppD1
C	30	35.2	2.6	99	1	US-08-486-196-7	Sequence 7, AppD1
C	31	35.2	2.6	99	1	US-08-488-155-7	Sequence 7, AppD1
C	32	35.2	2.6	99	2	US-08-414-065-7	Sequence 7, AppD1
C	33	35	2.6	1437	4	US-09-137-223A-4	Sequence 4, AppD1
C	34	35	2.6	1661976	4	US-08-916-221B-1	Sequence 1, AppD1
C	35	34.4	2.5	8492	4	US-08-981-522-163	Sequence 163, AppD1
C	36	34.2	2.5	3822	3	US-08-675-566-8	Sequence 8, AppD1
C	37	34.2	2.5	3861	3	US-08-675-566-11	Sequence 11, AppD1
C	38	34.2	2.5	3888	3	US-08-675-566-12	Sequence 12, AppD1
C	39	34.2	2.5	3955	3	US-08-675-566-10	Sequence 10, AppD1
C	40	34.2	2.5	4009	3	US-08-675-566-9	Sequence 9, AppD1
C	41	34.2	2.5	4503	3	US-08-675-566-7	Sequence 7, AppD1
C	42	34.2	2.5	7379	3	US-08-675-566-13	Sequence 13, AppD1
C	43	34	2.5	1928	3	US-08-675-816-4	Sequence 4, AppD1
C	44	33.8	2.5	5241	4	US-08-809-513A-1	Sequence 1, AppD1
C	45	33.8	2.5	5241	4	US-08-809-513A-1	Sequence 2, AppD1
ALIGNMENTS							
RESULT 1							
US-09-233-506-1							
; Sequence 1, Application US/092333506							
; Patent No. 613580							
; GENERAL INFORMATION:							
; APPLICANT: Fukuda, Minoru							
; APPLICANT: Yeh, Juiunn-Chern							
; TITLE OF INVENTION: A Beta-1,6-N-Acetylglucosaminyltransferase That Forms							
; FILE REFERENCE: P-LJ 3415							
; CURRENT FILING DATE: 1999-01-19							
; NUMBER OF SEQ ID NOS: 14							
; SEQ ID NO 1							
; LENGTH: 2128							
; TYPE: DNA							
; ORGANISM: Homo sapiens							
; FEATURE:							
; LOCATION: (354)..(1670)							
; US-09-233-506-1							
Qy	317	TGACCACTGTATTGATTCAGACTTCAAGGGTTATGCTCAAAGCTCTCAA	14.1%	Score 191.8;	DB 3;	Length 2128;	
Qy	670	TCACCAAGACTTGAGACTTCCATTGATCATCTTGATTGATGCCCTGAA	52.5%	Pred. No. 1.1e-42;			
Db	730	AAGGAGACTGGAGCTTCAAAGTTGCCATGACAATTAGCTAAGTCCATTGATGCA	0;	Matches 0;	Match 432;	Indels 36;	Gaps 3
Qy	377	AGGGGAGAACTTCCATTGATCATCTTGATTGATGCCCTGAA	43.3%	Score 191.8;	DB 3;	Length 2128;	
Db	790	TTGAAAGGGTACTCGGAGTTGATGCCCTGAA	55.5%	Pred. No. 1.1e-42;			
Qy	437	TTGAAAGGGTACTCGGAGTTGATGCCCTGAA	49.9%	Matches 0;	Match 432;	Indels 36;	Gaps 3
Db	790	TTGAAAGGGTACTCGGAGTTGATGCCCTGAA	55.5%	Score 191.8;	DB 3;	Length 2128;	
Qy	497	GTAAGGACTCTGATACCTTCAAACTTGCCTGAA	49.9%	Pred. No. 1.1e-42;			
Db	850	AGAGTCTCCAGAACTTCAGGCGTCAAGGCGTCAAGGCGTCAAGGCGTCA	55.5%	Matches 0;	Match 432;	Indels 36;	Gaps 3
Qy	557	TTCATTTGTTCCAAATTAGGGCTGTGGAATGCCACATTGCCACATTGCCACAT	49.9%	Score 191.8;	DB 3;	Length 2128;	
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Db	970	ACCTGCTCAGACTGCTGAGACTGGCTCCAGGTGATGCTGAA	55.5%	Score 191.8;	DB 3;	Length 2128;	

ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathrin A.
 REGISTRATION NUMBER: 31, 815
 REFERENCE/DOCKET NUMBER: P-LJ 9326
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454
 US-08-906-13

Query Match Score 13.6%; Score 185.2; DB 1; Length 1807;
 Best Local Similarity 52.1%; Pred. No. 6.4e-1;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

Qy 327 TGGACATTACAGCTTAAGGTTATGCTCAAACCTTGTCAAGGAGAGAA 386
 Db 467 TTGAAGAAATACCTGACCAGCCACTACATCACGCCAGCCTATCPAAGGAAGC 526
 Qy 387 AAGTCCTCCATAGCCATTCTGGCATATATGGTCATCATCATCACCTTGCAACCTTGAGGCT 446
 Db 527 TGACTTCCCTGGCATATATGGTCATCATCATCACCTTGCAACCTTGAGGCT 586
 Qy 447 TATCCATGTATAACACAGACATAATTACAGCATCATTATGATCGTAAGGCACC 506
 Db 587 CTTCAGGGTATTACATGCCAAATACTACATGTGTTATGGGAAAGAAC 646
 Qy 507 TGATACCTCAAGTGGCATGAAACATTATGGCTAAAGTCATAATTCATGGC 566
 Db 647 AACGAAATTAAAGATGGGTAGGACTTTAACGCTTCCTTTCGGC 706
 Qy 567 TTCCAAATAGGGCTTGGCATATGCCACATTACAGCTTCAGGCGTAAATTG 626
 Db 707 TTCCAGATGGAAACCCGGTGTGCTATGGGAAATATGTTACACTGTGGGGCA 766
 Qy 627 CTOTCGGACCTCTGAAGTCCTAACTGGAAATATGGTAACTGTGGGGCA 686
 Db 767 CATCAGATCTCTGCTCGAGSTCATGGGAAACACACTCTGGGGCA 826
 Qy 687 AGATTTCCCTGGATGAAATTGGATGGTGTAGAGTGAAGAAACTCAATGGGC 746
 Db 827 AGACTTCCCTGAAACACAGGAAATGGTGTGCTATGGGAAATAGTTAAGGTA 886
 Qy 747 AAATATGTTGAGACGCTCTGAAGTCCTAACTGGAAATATGGGAAATTGCTCA 806
 Db 887 AAATACCCCAAGGGCTGCCAGCTCATGAAATGGGAAATATGGTGTGCTCA 946
 Qy 807 TGAACTTAGGGCTGCCTTAATAATGGGAGGTACCCATAAGCACACATCTCCA 866
 Db 947 CCAGAGACCTGGCA-----AAGGCTTCCTATGGTAAAGACAGCGTTGA 1000

RESULT 2

US-08-906-13
 Sequence 13, Application US/08118906
 Pat. No. 5484590
 GENERAL INFORMATION:
 APPLICANT: Fukuda, Minoru
 INVENTOR: Biermien, Marti F.A.
 TITLE OF INVENTION: Expression of the Developmental I
 TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
 TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
 NUMBER OF SEQUENCES: 14
 ADDRESS: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/118,906
 FILING DATE: 09-SEP-1993
 CLASSIFICATION: 536

RESULT³
 US-084-406-13
 Sequence 13, Application US/08486196
 Patent No 5731420

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
 APPLICANT: Bierhuizen, Marti F. A.
 TITLE OF INVENTION: Expression of the Developmental^I Encoding a Member of a Cloned Human cDNA
 TITLE OF INVENTION: Antigen By a Cloned Human cDNA
 NUMBER OF SEQUENCES: 14
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:

COMPUTER: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/486,196
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,906
 FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Kathryn A.
 REGISTRATION NUMBER: 31,815
 PRIORITY/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454

US-08-486-196-13

Query Match 13 6%; **Score** 185.2; **DB** 1; **Length** 1807;
Best Local Similarity 52.1%; **Pred.** No. 6.1e-41; **Indels** 24; **Gaps** 3;
Matches 502; **Conservative** 0; **Mismatches** 438;

Qy 327 TTGTGCAATTATCAGACTCTAAGGGTTATGGCTCAAAGCTGTCTAAAGGAGGAA 386

Db 1181 TGGCTCTATGCCAAATGGATCCCTGGACTG-----GAAACCTCGAAGCTAT 1225
 1107 CAAGTGAAATTACTATGAGGCTTTCCTATCCAGTTGACTGATCTAACCTTCGAAG 11.6
 1226 AACAGGGACTGATGGAGACAGACACGGACCC--TGCCACGGCCACTATGATCATCG 128.2
 Db 1167 CGTGTGATTATGGAGCTGAGGATAAGTGGCTTATCAAGATGGACATTGGTTGC 122.6
 1283 TATTGTACTATGAAACGGGACTAAAGGACTTAAGTGGCTGTATTCAACAGCCGTTGC 134.2
 Db 1227 TAATAAATTGATCTAAAGTGGACCCATATCTGTGATTAAGTGGAGAACTTGA 128.6
 Qy 1343 TAACAGTTGAGCTTAATACCPACCCCTTACTGTGGAATGAGCTGAATGAGCATCG 14.02
 Qy 1287 AGAA 1290
 Db 1403 CGAA 1406

Db 467 TTGCAAGGAAATTACTTGACCCAGGCCACTATCACGCCCTTATCAAGGAGGAGC 526
 387 AGCTTCCATTAGCTTATCTTGGTTCTCACAAGATGGATTATGGTAAAGCT 446
 527 TGACTTTCCTTGGATATAATGGTCATCATCATCTTCAAGCT 586
 447 TATCCATGCTATAATGACAGCAATATTCGATCCATTATGATCTGAAGGAC 506
 587 CTTCAGGGCTTTCATGCTGCCAAATTACTGTGTTCAAGTGTGAGAAAGAAC 64.6
 Qy 507 TGTACCTTCAAGTGGCATGAACTTGAAGTAAGTGGTCTCCAAATATTCATATGC 566
 Db 647 AACTGATTTAAAGTGGTAGGCAACTTAAGTGTCTCCAAACGCTTTCGCG 706
 567 TTCCAATTAGAGGGCTGAGCTCCAGACTTCCAGGAAATGGTATCAGCTTGTTGC 626
 Qy 707 TTCCAGATGGAAACCGTTCTATGGAGGGATTCAGGCTGACTGTGAAATG 766

Db 627 CTGTGCGACCTTCGAAAGTCTCAATCCAGGTGAAATGGTATCAGCTTGTTGC 686
 767 CATCAGAGATCTTCGCTTGAGGTCTGAGTTCAACCTGTGCGCA 826

Qy 687 AGATTTCCTGAACTCAATTGAAATTGTTGAGTGTGAAACTCATGGAGC 746
 Db 827 AGACTTCCCCTGAAACCAAAAGGAATAATGTCAGPATCTGAAAGGATTAAAGTAA 886
 Qy 747 AAATATGTTGGAGACGGTGAACCCAAACAGTAATTGGAAAGTTCATACCATCA 806
 Db 887 AAATACCCAGGGTGTCCCCAGTCATGCAATTGGAGGACTAAATGTCGA 946
 Qy 807 TGAACITGAACGGTCCCTTATGAAATATGTAATGGAACTTCAAA 866
 Db 947 CCAGAGCCTGGCA---ANGAGCTTCCATGTGATAGAAACAGCTGGTGA 1000
 Qy 867 GGAAGCACCCCCATAACATTCAAGATACTGGCACTGTCTATTTGTTAACTCA 926
 Db 1001 ACGGCTCCCTCCCTAAATCPCACATTCTACATTCTATGCTTATGAG 1060
 Qy 927 AGATTGTTAAATATTTCAAACTTCATGTTCAAGAATTGCTGTTCTA 986
 Db 1061 AGAGTTGCCACTTGTGCTGATGACCCAGCTGTGATTGGTCAGGGTCAA 1120
 Qy 987 AGACACATACTCTCCNGATGAGCAGTTGGTPACCTTGATCAGGTTCCAGGAATACC 1046
 Db 1121 GGACACPTTCAGCTGTGCAATTGCACTCATAGGATTCCAGTGTCC 1180
 Qy 1047 TGGGAGATTCCAGTCAGGCCAGATGCTGATCTGAGAGTAACTGCGCTGT 1106
 Db 1181 TGGCTCTATGCCAAATGCTGACTGCTGAGCT 1225
 Qy 1107 CAAGTGGAAATTACTATGAAAGCTTTCTATGGATCTCACCTTCGAG 1166
 Db 1226 AATGAGTGGTACATGAGACAGACAGGAGC -TCCACGGCCACTATGTTACATGG 128.2
 Qy 1167 CGTGTGATTATGGCTGAGGATTAAGTGGCTTATCAAAGATGGCATGGTGC 1226
 Db 1343 TAACAAGTTGAGCTTAATACCTACCCCTTACTGTGGATGCCTAG 1402
 Qy 1287 AGAA 1290
 Db 1403 CGAA 1406

RESULT⁴
 US-08-486-135-13
 Sequence 13, Application US/08486135
 ; Patent No. 566910
 ; GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
 APPLICANT: Bierhuizen, Marti F.A.
 TITLE OF INVENTION: Expression of the Developmental I Gene Encoding a Member of a Cloned Human cDNA Encoding a Member of a Family of Proteins
 NUMBER OF INVENTION: Antigen By A Cloned Human cDNA Encoding a Member of a Family of Proteins
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/488,135
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,906
 FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Kathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 STRANDEDNESS: double
 TYPE: nucleic acid
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454
 S-08-488-135-13

Query	Match	Score	Length	DB	1:	3:
Y	327 TTGTGACATTTATCAGACTCTAAGGGTATTGCGTCAAAGCTTGCTCAAAGGAGGAA	13 6%	185 2;	DB 1:	Length 1807;	
Y	467 TTGCAGGAACTACTGCCAGGGCACTACATCCAGGCCCTTATATTAAGGAAGGC	Best Local Similarity 52.1%;	Pred. No. 6.4e-41;	Mismatches 438;	Indels 24;	Gaps 3;
b	Matches 502; Conservative 0;					
Y	387 AAGCTTCCATAGCTTATCTTGTGGTGTCCACAAAGTCGAATATGGTGAAGGT					
b	527 TGACTTTCCCTGGATATAATGGTCAATCTTGCACCTTGCACCTTGAAGGT					
Y	447 TATCATGCTTATAACCCAGCAAAATTTAGCTCATATGATGTTGACCTTGCACC					
b	587 CCTCAGGCTTATTCATGCCAAATACTACTGTGTCTATGGGTGATAAAAGCAC					
Y	507 TGATACCTTCAAAGTTGCCATGAACATTAGCTTAAGTGTCTCAATTTCATC					
b	647 AACTAGATTAAAGATGGCTAGGTAGAACATTAGCTGTTCCCAGGCTTGTGGC					
Y	567 TTCCAAATTAGGGCTGGATAATGCCACATTCCAGACTCCAGCTTCAACTTGTGGCA					
b	707 TTCCAAATTAGGGCTGGATAATGCCACATTCCAGACTCCAGCTTCAACTTGTGGC					
Y	626 CTTGTGGACCTTCTGAAGTCTTCATCCAGAAATATGTTTCAACTTGTGGCCA					
b	767 CATCAGAGATCTTCTCCCTTCAGGCTCTCATGGAGTACCTTCAACCTGGGCA					
Y	687 AGATTTCCCTGAAGTCAAATTGTAATTGTTGAAGTGTGAGGTGAAAGTCAATTGAGG					

Query Match	13.6%	Score 185.2;	DB 1;	Length 1807;
Best Local Similarity	52.1%	Pred. No.	6-4e-41;	
Matches	502;	Mismatches	438;	Indels 24; Gaps 3;
Y	3 27 TTGTGACATTTA TCA GACTCTTAAGAGTTATGGCTCAAAGCTTGTCTAAAGGGAGAA	386		
b	4 67 TTGAAGGATACTTGACCCAGGCCATACATACAGGCCCTTATCTAAGAAGAGC	526		
Y	3 87 AAGCTTCCAAATNGCTATTCTTGGTGTCCACAAAAGTGCATAATTATGGTTGAAGGCT	446		
b	5 27 TGACTTTCCTTGGCATATAATGGTCATCCATCATCACTTGCACCTTGCAGCT	586		
y	4 47 TATCCATGGTATAACCCAGCACATTACTGCATCCATTATGATGTAAGGCC	506		
b	5 87 CTTCAGGGCTTATTCATGCCAAATATCPACTCTGTCTCATGTTGATGAAAGCCAA	646		
y	5 07 TGATACCTTCAGTGGCATGAACTATTGCTTAAGTGTCTTCCTCAATATTTTCATTC	566		
b	6 47 AACCTAAATTAAATGGGGTAGGGCACTTAACTGCTTCCAAAAGCTTTCTCGC	706		
y	5 67 TTCCAAATTAGAGGCTTGTGGAATATGCCAATTTCCAGACTCCAGGTGATTAAATTG	626		
b	7 07 TTCCAGATGAAACCGTGTCTATGARGGGATCTCAAGGTCCAGGTGACTCTGAACTG	766		
y	6 27 CCTGGTGGACCTTCTGTGAACTCTTCATTCAGTGGAAATATGTTAACCTGTGGGAA	686		
b	7 67 CATCAGAGATCTTCTGGCCCTTCTGAGGTCTATGGAACTGTTAACAAACCTCTGGGAA	826		

FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Kathryn A.
REGISTRATION NUMBER: 31, 815
REFERENCE DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 531-8949
INFORMATION FOR SEO ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1807 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME KEY: CDS
LOCATION: 255..1454

Query Match Score 185.2; DB 2; Length 1807;
Best Local Similarity 52.1%; Pred. No. 6.4e-41;
Matches 302; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

5-08-474-065-13

RESULT 6
US-07-555-041-3
Sequence 3, Application US/079555041
; Patent No. 5360733

GENERAL INFORMATION:
APPLICANT: FURKUDA, MINORU
APPLICANT: BIERHUIZEN, MARTI FA
TITLE OF INVENTION: A NOVEL BETAL₆
N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE
TITLE OF INVENTION: LEUROSTALIN AND A METHOD FOR CLONING PROTEINS HAVING
TITLE OF INVENTION: ENZYMATIC ACTIVITY
NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955,041
FILING DATE: 1992/01/01
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHRYN
REGISTRATION NUMBER: 31,815
REFERENCE DOCKET NUMBER: P-LJ 9294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-9001
TELEFAX: 619-535-8949

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
NAME/KEY: CDS
LOCATION: 220..1504

FEATURE:
NAME/KEY: misc signal
LOCATION: 248..314

OTHER INFORMATION: /standard_name= SIGNAL/MEMBRANE-ANCHORING DOMAIN/
OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

Db 1181 TGGCTCTATGCCAAATGCACTGCAGCT 1225
Qy 1107 CAAGTGGAAATACTATGAAGCTTTCATCCAGTTGACTGGATCTAACCTTGAAAG 1166
Db 1226 AAAGTGGAGTACATGAAAGCAGACGGGG--TGCACCGCCACTATGTACATG 1282
Qy 1167 CGTGTGTTATTATGGCTGAGATAAGTGGTTACAAGATGGCATCTGGTC 1226
Db 1283 TATTGTGATCATGGAAAGGAGACTTAAGTGGTTAATTCACCAAGGCTGTTC 1342
Qy 1227 TATAAATTGATTCAAGTGGACCTATCTGATAAATGCTGGAAAGCTTGA 1286
Db 1343 TTAAGTTGAGCTTAACCTACCCCTACTGGATGCTGAACTGCTGGATCG 1402
Qy 1287 AGAA 1290
Db 1403 CGAA 1406

Query Match Score 13.6%; DB 2; Length 1807;
Best Local Similarity 52.1%; Pred. No. 6.4e-41;
Matches 302; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

327 TTGTGACTTTATCAGCTCTAGAGTTATGCTCAAAGAGTTGCTCAAGGAGAA 386
467 TTGCAAGGAAATTGGCCAGGCCATCACATCACAGGCCCTTATCTAGGAGAAC 526
387 AAGCTTCCAAATAGCCTATTCTTGTGTCACAAAGATGCAATTATGGTTGAAGCT 446
527 TGTCTTCCTGGCATATAATGGCTCATCATCTTGAACCTTGCAGGGCT 586
447 TATCCATGCTATAACCAACACATATTACTGCTCATTATGATGTTAGGCAC 506
587 CTTCAGGGCTATTACATGCCAAAATATCTACTGTTCATGTGGATGAAAGCAC 646
507 TGATACCTCAAGTGGCATGAAACATTAACTGCTTCAAAATTTCATG 566
647 AACGTAAATTAAAGATGGCTAGGCCAACTTAAAGTGTCTTCCTGGC 706
567 TTCCAAAATAGGGCTGTGAAATATGCCACATTCCAAGCTCAGCTGATTAAATG 626
707 TTCCAGATGCGGCCCTGTGTTATGGGGGATCTCGGGTCCAGGCTGACTC 756
627 CTTCGGACCTCTGAGTCCTCAATCAGTGGAAATATGTTATCAGCTGTGGCCA 686
767 CATCGAGATCTTCTGGCTTCAGGTTCAAGTGTATCACACCTGGGGCA 826
687 AGATTTCCCTGAGTCATTGAAATTGTTGAGTGTGAGGTGAAAGTC 746
827 AGACTTCGCCCTGAACACAGGAATAGTTCACTATGTTAAGGTTAAAGTAA 886
747 AAATATGTTGGAGACGGTAAACCCCAACAGTAATTTGAAAGTTCACTTACATCA 806
887 AAATATCACCCAGGGCTGCCCTGGCTGAAATTGAGGAACTATATTC 946
1001 ACCGCTCCCCCTAATCTCACATTACTTGGCTCTGCTAATGGCTCTATCAAG 1060
927 AGCAATTGTTAAATATTTCAACATCCATCGTCAAGCTTGTGGCTGGTCAA 986
947 CCAAGGAGCACCTGGCA----AAGCTTCTCCTATGTGATAAGAACAGCGTGGAA 1000
867 GGAAGCACCCCCATAAATTCAGATATTGTGGAGTGTATTGTGTTAAGTCA 926
1061 AGAGTTGCCAACFTGTTGATGACCCAGGGCTCATGGCTCAATGGCT 1120
987 AGACACATACTCTCTGAGGACTTGGCTGACTCTGTCAGCTTGTGGCTTCAGCTTGA 1046
1121 GGACACTTCACTTGTGATGACCCAGGGCTCATGGCTCAATGGCT 1180
1047 TGGGAGATTCCAGATGCCAGGATGCTGAGTAAACTCGCCCTGT 1106

US-07-955-041-3

Query Match Similarity 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2.6e-37;
Matches 515; Conservative 0; Nismatches 445; Indels 36; Gaps 4;

Qy 300 TGAATGTTGGCATGACAGTGTGACATTATCAACTCTAAGGTTATGC 359
Db 489 TAGCAGCTATAAACATGACCAGTGAATGTCATGAGCCAAATAT 548

Qy 360 TCAAAGCTTGCTCAAGGGAGAAAACCTCCAAATAGCTATCTTGTGCCA 419
Db 549 TGTAGAACCCCTTAGTAAGAGGGGAGTTCATAGCATATCTATGGTCA 608

Qy 420 CAAAGATGCAATTATGGTGAAGGTTATCCATCTATACACAGCACATTTA 479
Db 609 TACAAATTGAAATGTTGAGGGTGTGAGGTTGCTGAGATTCTA 668

Qy 480 CTGCATCCATTATGATGTCATGAGCCTGATACCTTCAAAGTCCATGAAACATTAGC 539
Db 669 TGGTGTATGAGCACAAATCCAGGTTCTATTAGCTGAGTGGCATGCG 728

Qy 540 TAAGTGCCTTCICAATTTCATGCTTCAATTAGGGCTGGAAATATCCACAT 599
Db 729 TGCCTGTTTAACTATCTTGTGCCAGCGATTGGGTTATCGTGTG 788

Qy 600 TCCAGACTCCGGCATTAAATGCTGCTGACCTCTCAATCCAGTGG 659
Db 789 GACCGGGTTTCGGCTGGCTGACCTCCTCAATGAGTCAAACTG 848

Qy 660 GAATATGTTACAATGTTGAGGTTCCCTGAATTTGAATATGGT 719
Db 849 GAACTGACTGAAATTTGGCTATGGATTTCCTAAACCACTGAAATGGT 908

Qy 720 GTCAAGATGAAAAACTCAATGGCAAAATTGTTGAGAACCCCGAAAG 779
Db 909 CAGAAAGTCATGTTGTTAATGGGAAACACCTGGAAACGGAGGATGGCCTCA 968

Qy 780 TAAATTGGAAAGATTCACTTACCATGAACTTAGACGGGGCCTTATGAATATGGTAA 839
Db 969 TAAAGAAAGGTGGAGAACGGTATGAGCTTAAATGGATTAGCTGAC 1019

Qy 840 GCTACCAATAAGSACAAACATCCAGGAAGAACCCCCATACATTCAGATAATTGT 899
Db 1020 -----AAACACAGGACTGTCAAATCTCCCACTGAAAACCTCTCTTC 1070

Qy 900 TGGCGTCTTATTGTTAATGCAAGATTGTTAAATTTAACACACTGAT 959
Db 1071 TGGCAAGTCCTTCTGGTCACTGAGGACTATGGGGTATGACTACAGATGAAA 1130

Qy 960 CGTCAAGACTTTTGGCTGTTAAGACACATACTCTGATGAGCATTGGC 1019
Db 1131 ATCCAAAGATGAGCTGGCAAGACATACAGCCGATGACTATCTGGC 1190

Qy 1020 TACCTTGATGTTGGTCCAGGATAACCTGGGAGAT---TTCACATGAGCTGATCT 1076
Db 1191 CACCATCRAAGGATTCTGAGTCCGGCTCACTCCCGCAGGCTAAGPATGACT 1250

Qy 1077 GTCTGATCTGCAAGTAAACTGGCCTTGTCAAGTGGAAATTCTATGAGGTTT -- 1133
Db 1251 ATCTGACATGCAAGCAGTGCAGGTTGCAAGTGGCACTTGTGAGTGGTTTC 1310

Qy 1134 ------CTATCCAGTTGACTGGATCTGAGCTGTTGTTGTTATTTATGG 1181
Db 1311 CAAGGGTGGCTCCATGGCCCTGGCTGAGGAACTCTGCTAGTGGTCACTG 1370

Qy 1182 AGCTGCAGAAATTAAAGCTGGCTTATCAAGATGCAATTGGTTGCTAATAATTGATTC 1241
Db 1371 AGCTGGTGGACTGACTGGATGACTGGTGGCAAAACCACTTGTGCAATAGTTGACGT 1430

Qy 1242 TAAAGTGGCCTCATCTGATTAATGCTGGCAGA 1277
Db 1431 GGATGGCCTCTTGCCTACGGCTGGATGAAATGCTGGCAGA 1466

RESULT 7
US-08-227-455-3
Sequence 3, Application US/08227455
Patent No. 5624832

GENERAL INFORMATION:
APPLICANT: FUKUDA, MINORU
APPLICANT: BIERERSEN, MARTI FA
TITLE OF INVENTION: A NOVEL PETA1-6
TITLE OF INVENTION: N-ACETYLGLUCOSAMINULTRANFERASE, ITS ACCEPTOR MOLECULE,
TITLE OF INVENTION: LEUKOSTAIN AND A METHOD FOR CLONING PROTEINS HAVING
NUMBER OF SEQUENCES: 8

ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENT IN RELEASE #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/227,455
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHERYN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9957
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-9001
TELEFAX: 619-535-8849
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2105 base pairs
TYPE: nucleic acid
STRANDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 220..1504
FEATURE:
NAME/KEY: polyA_Signal
LOCATION: 1913..1918
FEATURE:
NAME/KEY: misc_Signal
LOCATION: 248..314
OTHER INFORMATION: /standard name= "SIGNAL/MEMBRANE-ANCHORING DOMAIN"
US-08-227-455-3

Query Match Similarity 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2.6e-37;
Matches 515; Conservative 0; Nismatches 445; Indels 36; Gaps 4;

Qy 300 TGATGATGTTGGCAATGACCGCTGATGAGCTCTAGAGGTTATGC 359
Db 489 TGACGCTATATAAACATACCAAGTGACTGTTCTCTTCATCAGAACATAT 548

Qy 360 TCAAAGCTGTCAAAGGAGGAAAGCTGGCTCCATAGCTATCTTGGTGTCCA 419
Db 549 TGTGAAACCCCTTAGTAAGAGGGCGGAGTTCCGATGCTATCTAATGCTTCA 608

Qy 420 CAAAGATGCAATTATGGTAAAGCTTATCATGGTATATACACGCAAAATTAA 479
Db 609 TCAAGATGTTGAAATGCTTACGGCTGGGGCTATATGCTCGTGAATTCTA 668

Qy	480	CTGGATCCATTATGATCCTAAAGCACCTGTATACTTCAGATGAACTTACAGTTGGATGAACTTATTCAG	539
Db	669	TTCGGTTCATGGACACAAATTGGGAGGATTCCTATTAGCTGAGTGATGGCGAT	728
Qy	540	TAAGTGCTTCACCATTTTCATGGTCCAAATTAGCTGGAAATTATGGCCACAT	599
Db	729	TTCGGTTTAGATATGCTCTTGGGACCTTGTGAAGCTTCATCAATCAGTG	788
Qy	600	TTCAGACTCCAGCTGATTAAATTGCTTGTGGACCTTGTGAAGCTTCATCAATCAGTG	659
Db	789	GAGGGGTCACSGTACCTAACCTGAGGATCTATGAACTGAAACTG	B48
Qy	660	GAATATGTTACAACITGTGGCAGATTTCCTCCGTTGAACTGAACTGAC	719
Db	849	GAACTCTGATAATCTTGTGTTGGATTTCCTTAAACCTGAAATGTT	908
Qy	720	GTCAGAGTGAACAAACTCAATGGCAAATATGTTGGAGACGGTAAACCCCAAACAG	779
Db	909	CAGGAGCTCAAGTGTAAATGGGAAACAGCTGAAACGAGGTGCCATCCA	968
Qy	780	TAATTGGAAAGTTCACCTACCATCTGAAATTAGCTGAGGTTGCCTTATGAACTTGAA	839
Db	969	TAAGGAAAGCTGGAAAGGGTATGA-----GTCGTTAATGAACTGAC	1019
Qy	840	GCTACCAATAAGGAAACATCTCAGGAAACCCCCATAAAGATTGAGATTTGT	899
Db	1020	-----AAAGCAGGGACTCTCAATGTTCCATCGAAACACTCTCTTTC	1070
Qy	900	TGGCAGTGTAAATTGTTGGTTTAAATTTCAACAACTCCAT	959
Db	1071	TGGGTGTGCTACTCTGCTCATGGAGATGCTGAGTCAAGTAAAGTAA	1130
Qy	960	CGTCAAGACTTTTTCGCTGCTTAAAGACACATACTCTCGTGTGAGACTTTGGCC	1019
Db	1131	AATCTAAAGTGTGGGTGGCACAGACATACAGCCTGTGAGTCTGGCC	1190
Qy	1020	TACCTTGATTGATCGGTTTCCAGGATAACCTGGGAGAT--TTCCAGATCAGCCCAGGAT	1076
Db	1191	CACATCCAAAGGATTCCTGAAGTCCGGGTCATCCCTCCAGCATAGTGTGATCT	1450
Qy	1077	GTCGATCTGCAAGTAAAGACTGGCCTTGTCAAGTGGAAATTACTTGAGGCTTTT	--
Db	1251	ATCCRATCSCAACGATGCTGCGAGTGGCAACTGAGTGTGAGGTTGAGTTGTC	1310
Qy	1134	-----CTATCCCAAGTGTACTGGATCTCACCTTGAAAGGCTGTATTATGG	1181
Db	1311	CAAGGGTGCCTCACCCCTCCCTGGAGCTCAGTCGCTGCACTTTCG	1370
Qy	1182	AGCTGCAAGATTANGTGCTTATCAAGATGCAATTGGTTGCTTAATTGATTC	1241
Db	1371	AGCTGGTGAATGACTGATGCTGGCAAAACACACTTGTGCGAAATAGTTGACGTT	1430
Qy	1242	TAAGGTGGACCCATATCTGATTAATGTTGGGA	1277
Db	1431	GGATGTTGACCTTGTGCTCATCCGGTGTGATGA	1466

QY 720 GTCAAGACTGTTGAAAGAAAACCTAACTGGAGGAAATAATGTTGAGACGGTGAACCCCAACAG 779
 QY 909 CAGGAAGTCACACTGTGTAATGGAGAAAACACTCTGAAACGGAGGATGCGTCCCCA 968
 QY 780 TAAATTGAAAGATTCATCTTACCATCATGAACTTAACTGGCTTATGAAATATGTTGA 839
 QY 969 TAAGAAGAAAGTGGAAGCGGTATGAA-----GETCGTTAACCTGAAACTCTGCAC 1019
 QY 840 GCTTACCAATAAGGAAACATCTCAGGAAGACCCCTAAACATTGAGATTTGGT 899
 QY 1020 -----ABACAGGGACATCTCAAATGCTTCCACTGAAACACTCTCTTTC 1070
 QY 900 TGGGAGTGTAAATTGGTTTAAGTCAGCAATTGTAATAATTTCAACAACCTCCAT 959
 QY 1071 TGGGAGTGTCTACTCTGTTGAGATGGGAGATGTTGACTACAGTGAATGAAAA 1130
 QY 960 CGTTCAAGACTTTTGGCTGGTCAAGACATACTCTCTGAGGAGCTTGGGC 1019
 QY 1131 AATGCCAAAGTTGTTGGGTGGCAAGACATACAGCCCTGAGGATCTCTGGGC 1190
 QY 1020 TACCTTGATTCGTTCCAGGAATACCTGGAGAT---TTCCAGATCAGCCGAGATGT 1076
 Db 1191 CACATCCTAAAGGTTCTGAAGCCTGGCTCACTCCCTGAGGCTAACTGATGATCT 1255
 Db 1077 GTCTGATCTCGAGGTAAGACTGCCCTGTCAGTGGAAATTACTGAAAGGCTTTT--- 1133
 Qy 1251 ATCTGACATCTCAAACGAGTGTCCAGGTTGTCAGTGACAGTACTGGTGAATTTTC 1311
 Qy 1134 -----CATCTCCAGTTGACTCTGGATCACCTTCGAGGCTGTATTTATGG 1181
 Db 1311 CAAGGGTGTCTCCACCGCCCTGGATGGACTICATSTGGCTCAGTGTGGCG 1377
 Qy 1182 AGCTCGAGAAATTAACTGGCTTCAAAAGATGCAATGGTTGCTATAAAATTGATTC 1244
 Db 1371 AGCTGTGTGACTGTGACTGGATGCTGCGTAAACACACTGTGTCCTGCAATGTTGAGCT 1433
 Qy 1242 TAAGGTGGACCTTATCTTGATTAAATGCTTGGCGGA 1277
 Db 1431 GGATGTTGACCTCTTGGCTCAGTGTGGATGA 1466

RESULT 9
 US-08-487-069-3
 / Sequence 3, Application US/08487069
 / Patent No. 5684134
 / GENERAL INFORMATION:
 / APPLICANT: EUKUDA, MINORU
 / ATTORNEY: BIERHUIZEN, MARTI FA
 / TITLE OF INVENTION: A NOVEL BETAI-6
 / TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE
 / TITLE OF INVENTION: LEUKOSIN AND A METHOD FOR CLONING PROTEINS HAVING
 / TITLE OF INVENTION: ENZYMATIC ACTIVITY
 / NUMBER OF SEQUENCES: 8
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEES: CAMPBELL AND FLORES
 / STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 / CITY: SAN DIEGO
 / STATE: CALIFORNIA
 / COUNTRY: USA
 / ZIP: 92122
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/487,069
 / FILING DATE: 01-OCT-1992
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 07/955,041
 / FILING DATE: 01-OCT-1992

ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHRYN
 REGISTRATION NUMBER: 31-8
 REFERENCE/DOCKET NUMBER:
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8349
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE FOR SEQ ID NO: 3:
 LENGTH: 2105 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 220..1504
 FEATURE:
 NAME/KEY: polyA signal
 LOCATION: 1913..1918
 FEATURE:
 NAME/KEY: misc signal
 LOCATION: 248..314
 OTHER INFORMATION: /standard
 OTHER INFORMATION: "SIGNA"
 OTHER INFORMATION: "SIGNA"
 3-08-487-069-3

Query Match 12.6%
 Best Local Similarity 51.7%;
 Matches 515; Conservative

/	300	TGATGATGGTGTGGCAATGTT
/	489	TGACGACTATAAACATC
/	360	TCAAAGGCTGTCAAAAC
/	549	TGTAGAACCCCTTGAA
/	420	CRAAGTGGCAATTATGGTT
/	609	TCAACAGATGAAATGCT
/	480	CTGCATGCCATTGATGTCGG
/	669	TGGGTTCACTGGACAC
/	540	TAAGTGTCTCCCATAT
/	729	TCTCTGTTTAGTANTGTT
/	600	TTCAGACTCCAGGTGTAA
b	789	GAGCCGGGTTGGCTGAA
y	660	GAATATGGTATCACTTC
b	849	GAGGTACTGTAAATCTT
y	720	GTCAGAGTGTAAAACCT
b	909	CAGGAAGCTCAAGTCTT
b	780	TAATTCGAAAGATTCAC
b	969	TAAGAAGAAAGGTGCAA
b	840	GTCAGAGCTCTATTGTT
b	1020	-----AAACAGGG
y	900	TGGCAAGCTCTATTGTT

RESULT 10
US-09-063-227-3
Sequence 3 , Application US/09063237
; Patent No. 614267
; GENERAL INFORMATION:
; APPLICANT: McEvoy, Rodger P.
; ADDRESS: Cummings, Richard D.
; TITLE OF INVENTION: O-Glycan Inhibitors of Selectin Mediated
; NUMBER OF SEQUENCES: 5
; NUMBER OF INVENTIONS: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 2800 One Atlantic Center, 1201 West Peachtree
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: US
; ZIP: 30306-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/063,237
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/649,802
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: OMRF110CIP7
; TELEPHONE: (404)873-8794
; TELEFAX: (404)873-8795
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2102 base pairs
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-09-063-237-3

Query Match 11.8%; Score 160.8; DB 3; Length 2102;
Best Local Similarity 51.0%; Pred. No. 3e-34;
Matches 508; Conservative 0; Mismatches 452; Indels 36; Gaps 4;
Qy 960 CGTCAGAACCTTTGCGCTGGTAAAGACATACTCTCTGATAGCAATTGGGC 1019
Db 1131 ATTCGAAAGTGTGGAGTCAGGAGCAGACATAAGGCCCTGATAGTATCCTGGGC 1190
Qy 1020 TACCTTGATTGGGTCAGGAGAACATCCCTGGAGAT--TTCCGAGATAGCCAGATGT 1076
Db 1191 CACCATCAANGAATTCCTGAAGGCCGCTACTCTGCCGCTAAAGTAGATCT 1250
Qy 1077 GTCGATCTGCAGAGTAAGACTGGCTTGTCAAGTGGAAATTACTATGAGGTTTTT--- 1133
Db 1251 ATCTGATGAGAAGAGTTGCCAGTTGCAAGTGGAGTACTTGGAGTATGTTTC 1310
Qy 1134 --CTATCCCAGTGTGACTGTGATCTCACCTCGAGCCNGTGTATPATGG 1181
Db 1311 CAAGGGGTCCTCTCCGGATGGAGTCATGGCTCATGGCTTTCGG 1370
Qy 1182 ACTGTGAGAATTAGTGGCTTATCAAGATGACATGGTTCGTTGCTAAATTGGATTC 1241
Db 1371 ACTGTGACTGTGAATCTGGATGCTGGCAAACACCACTGGTTCCTAAAGTTGAGGT 1430
Qy 1242 TAGGGTGACCCATCTGGATTAAATGCTGGCGA 1277
Db 1431 GGTGTTGACCTCTGGCATTCAGTGTGGATSA 1466

Db 300 TGATGATCTTGGCAATGACAGTGGATGATTGACATTGCTTACCTGTTGG 359
Db 488 TGCGACTATATAAACATGACGTCGACTGTCTCTTCACTAGAGAGCAATATAT 547
Db 360 TCAAAAGCTTGTCTCAAGGGAGAAAAGCTTCCCAATAGCCPATTCTTGGTGTCCA 419
Db 548 TGTAGAACCCCTAGTAAGAGGGAGGTTCCATAGCATATTCTATAGGGTTCA 607
Db 420 CAAGATGCAATTATGGTTGAAAGGTTTATCGCTATAACACCGACAATATTTA 479
Db 608 TCACAGATTGAAATGCTGAGGGCTGCTAGGGCTCATATGCCCTGAAATTCTA 667
Qy 480 CTGATCCATTATGATCTAGTCAAGGCACTGTACCTCTAACAGTTGCGATACATTTAC 539
Db 668 TTGGGTTATGTCGACACAAATCCGAGGATTCCTATTGCTGAGTGTGGGATCTCC 727
Qy 540 TAATGCTPTCTCCAAATTTTATTTATGTTCAAAATTAGGGCTGGAAATATGCCCAAT 599
Db 728 TTCTGGTTTAACTATGCTCTGTCGAGGCTGTTTATGCTATCGATCTGRTG 787
Qy 600 TTCCAGACTCCAGGCTGATTTAAATGCTCTGCAACTCTTCATCCAGTG 659
Db 788 GAGCGGGTTTGGCTGACCTCAACTGCACTGCAAGGATCTCATGAAACTG 847
Qy 660 GAAATATGTTACATGCTGCTGGCAAGATTTCCTGAGTCAATTGAAATTGGT 719
Db 848 GAATGACTGATAATCTTGTGTTGATGTTCCATTAACACCTGAGAATTTG 907
Qy 720 GTCAAGAGTGAAGAAATCTCAATGGCAAAATATGTTGGAGACGGTGAACCCCAAAACAG 779
Db 908 CAGGAAGCTCAAGTGTGTTAATGGAGAAAACCTGGATTCCTGGCTCCCA 967
Qy 780 TAAATTGGAAAGATTCACTTACATGAACTTAGACGGTGTGCTTATGATATGAA 839
Db 968 TAAGAACAAAGTGGAGAAGCCCTATGA-----GETCGTAATGAAACTCTG-- 1016
Qy 840 GCTACCAATAAGACACATCTCCAGGAGACACCCCCCTAACATTGAGATTTGT 899
Db 1017 -----AGAACACAGGCACTCTCAAATGGTTCCCTCCACCTCTCTTC 1069
Qy 900 TGGAGGTGCTTAATTGGTTAATGCTGAGATTGTTAAATATTTCAACAACCTCCAT 959
Db 1070 TGGCGTGTGCTACTCTGGCTCTGGCTAGTGGACATCTGGGGATCTGGGG 1129
Qy 960 CGTTCAGACTTTTGGCTTAAGACACATCTCTGCTGAGACTTGTGGC 1019
Db 1130 AATCCGAAAGTTGGAGTGGCAGAGACACATAGCCCTGATGAGTCTCNGGC 1189
Qy 1020 TACCTTGATTGGATACCTGGGGAT---TTCAGATGCCAGGATGT 1076
Db 1190 CACATCCAAGGATTCCTGAACTCCCGCTCACTCCCTGAGCTAAGATGATGCT 1249
Qy 1077 GTCTGATCTGAGGTAACTGCTGCTGAGTAACTGAGGGTTTTT--- 1133
Db 1250 ATGGACATCAAGGATTCCTGAGTGGCTGAGCTGCTGAGCTTGGATGTTTC 1309
Qy 1134 -----CTATCCGAGTTGCTACTGATCTCACCTTCGAAGGCTGCTGATTTATGG 1181
Db 1310 CAAGGGTGTCTCCPACCCCGCTCGATGAGTCCTATGCGCTCACTGCTGATTCGG 1369
Qy 1182 AGCTGCGAAATTAACTGAGCTTATCAAAGTGGCATTTGCTATAAATTGGATTC 1241
Db 1370 TAAGGGGACCTATCTGGTTGCAAAACCCACTGCTGCTGCTGAGTGGCT 1429
Qy 1242 GCATGTTGACCTCTGGCCCTCCAGTGTGGCT 1465
Db 1430 GCATGTTGACCTCTGGCCCTCCAGTGTGGCT 1465

RESULT 11
 US-08-118-906-1 Application US/08118906
 / Sequence 1, Application US/08118906
 / Patent No. 5481590
 GENERAL INFORMATION:
 / APPLICANT: Bierhuisen, Marti F.A.
 / TITLE OF INVENTION: Expression of the Developmental I Antigen By a Cloned Human cDNA Encoding a Member of a Gene Family
 / TITLE OF INVENTION: Beta 1,6-N-Acetylglucosaminyltransferase Gene Family
 / NUMBER OF SEQUENCES: 14
 / CORESPONDENCE ADDRESS:
 / ADDRESSEE: Campbell and Flores
 / STREET: 4370 La Jolla Village Drive, Suite 700
 / CITY: San Diego
 / STATE: California
 / COUNTRY: USA
 / ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/118,906
 FILING DATE: 09-SEP-1993
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-8901
 TELEFAX: (619) 535-8949
 MOLECULE TYPE: cDNA
 NAME/KEY: CDS
 LOCATION: 1..378
 US-08-118-906-1

Query Match 8.9%; Score 121.2; DB 1; Length 378;
 Best Local Similarity 58.2%; Pred. No. 9.7e-24;
 Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

Qy 367 CTGCTCTAAGGGAGAAAAGCTTCCAAATAGCCATTCTCTGTGTGTCACAAAGAT 426
 Db 13 CTTTATCTAAGGGAGGGCTACTTCCCTGGCATATAATGTCATCCATCATC 72
 Db 133 CTTGGATGAAAGGCAACTGTTCTGGTAAAGTGGTAGGCCACTATAGTGC 192
 Qy 487 CATPATGATGTTGAAGGACCTGATACTGTTAACTGTTAGTAACTGTAAGTGC 546
 Db 133 CTTGGATGAAAGGCAACTGTTCTGGTAAAGTGGTAGGCCACTATAGTGC 192
 Qy 607 CTCCAGGGCTGATTTAAATTGCTTGGACCTTCTGAAAGTCTCAATCGTGAATAT 666
 Db 253 CTCCAGGGCTGATTTCTGGCAAAATTTCCTGGCTTCAAGTGAATGAGTAC 312
 Qy 667 GTTACAATCTGCTGGCCAABTTTCCCTGAAGTCAAATTGTAATGGTCAG 726
 Db 313 GTTACAACACCTGGCCAAGCTTCCCTGAACAAATTAGCTGATTCAGT 372

Qy 727 TTGAAA 732
 Db 373 CTGAA 378

RESULT 12
 US-08-486-196-1 Application US/08486196
 / Sequence 1, Application US/08486196
 / Patent No. 5731420
 GENERAL INFORMATION:
 / APPLICANT: Fukuda, Minoru
 / APPLICANT: Bierhuisen, Marti F.A.
 / TITLE OF INVENTION: Expression of the Developmental I Antigen By a Cloned Human cDNA Encoding a Member of a Gene Family
 / TITLE OF INVENTION: Beta 1,6-N-Acetylglucosaminyltransferase Gene Family
 / NUMBER OF SEQUENCES: 14
 / CORESPONDENCE ADDRESS:
 / ADDRESSEE: Campbell and Flores
 / STREET: 4370 La Jolla Village Drive, Suite 700
 / CITY: San Diego
 / STATE: California
 / COUNTRY: USA
 / ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: P-DO/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/486,196
 PRIORITY NUMBER: P-LJ 9526
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,906
 FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 378 base pairs
 STRANDEDNESS: double
 TYPE: nucleic acid
 STRANDS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE: NAME/KEY: CDS
 LOCATION: 1..378
 US-08-486-196-1

Query Match 8.9%; Score 121.2; DB 1; Length 378;
 Best Local Similarity 58.2%; Pred. No. 9.7e-24;
 Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

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 Db 13 CTTTATCTAAGGGAGGGCTACTTCCCTGGCATATAATGTCATCCATCATC 72
 Qy 427 GCAATTATGGTTGAAAGGTTTCCATGCTTACCTGATGCTTACACAGCACAATATTACAGCATC 486
 Db 73 TTGACACCTTCTGGCTTCAAGGCTCTCAGGGCTTATTTAGTGCCTTGGCATATAATGGCATCATCATC 72
 Qy 367 CTTGGATGAAAGGCAACTGTTCTGGTAAAGTGGTAGGCCACTATAGTGC 192
 Db 133 CTTGGATGAAAGGCAACTGTTCTGGTAAAGTGGTAGGCCACTATAGTGC 192
 Qy 547 TTCTCCAATATTTCATGGCTTCAAGTGAATGAGTTCAGTAACTCTCTGTGT 132
 Db 193 TTCCAAAGCTTCTGGCTTCAAGTGAACCTGTTCTGGGATCTCCAG 606
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 Db 253 CTCCAGGGCTGATTTCTGGCAAAATTTCCTGGCTTCAAGTGAATGAGTAC 312
 Qy 667 GTTACAATCTGCTGGCCAABTTTCCCTGAAGTCAAATTGTAATGGTCAG 726
 Db 313 GTTACAACACCTGGCCAAGCTTCCCTGAACAAATTAGCTGATTCAGT 372

Qy 547 TTCTCCAATATTTCATGGCTTCAAGTGAATGAGTTCAGTAACTCTCTGTGT 132
 Db 373 CTGAA 378

RESULT 13
US-08-406-1-35-1
Sequence 1, Application US/08488135
Patent No. 5766910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
ADDRESS: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
Title of Invention By a Cloned Human cDNA Encoding a Member of a
Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
Number of Sequences: 14

CORRESPONDENCE ADDRESS:
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
ZIP: 92122

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,135
FILING DATE:
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 538-8949

INFO FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..378

Query Match 8.9%; Score 121.2%; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 367 CTGTGTCAAAGGAGGAAGGGCTCCATAGCTTCTTGTCCCAARGAT 426
DB 13 CCTTTATCTAAAGAAGCTGACTTCCTTGGATAATAAGGTCATCATCAC 72

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Qy 607 CTCCAGGCTGATTTAAATTCTGTGGACCTCTCTGAAGTCTTCATTCACTCGAATAT 666
Db 253 CTCAGGCTGACTCTGAGATCTCTGCTTCAGGTCATGAACTAC 3112
Qy 667 GTTATGACTCTGTGGCAAGATTTCCCTGAGTCAATTGTTGATTGTGTGAGG 726
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Qy 727 TTGAAA 732
Db 373 CTGAAA 378

RESULT 14
US-08-406-1-35-1
Sequence 1, Application US/08488135
Patent No. 5766910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
ADDRESS: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
Title of Invention By a Cloned Human cDNA Encoding a Member of a
Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
Number of Sequences: 14

CORRESPONDENCE ADDRESS:
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
ZIP: 92122

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,065
FILING DATE:
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-9001

INFO FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..378

Query Match 8.9%; Score 121.2%; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 487 CATTATGATCTGAACTGATACTTCAAGTGTGCATGAATTTGTAAGTGC 546
Db 133 CAATGGGAAAGAAACACTGAAATTAAAGTGGTAGGCCAACTTAAAGCTGC 192
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Qy 727 TTGAAA 732
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RESIDUE 14
US-08-406-1-35-1
Sequence 1, Application US/08488135
Patent No. 5766910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
ADDRESS: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
Title of Invention By a Cloned Human cDNA Encoding a Member of a
Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
Number of Sequences: 14

CORRESPONDENCE ADDRESS:
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
ZIP: 92122

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,065
FILING DATE:
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-9001

INFO FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..378

Query Match 8.9%; Score 121.2%; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 367 CTGTGTCAAAGGAGGAAGGGCTCCATAGCTTCTTGTCCCAARGAT 426
Db 13 CCTTTATCTAAAGAAGCTGACTTCCTTGGATAATAAGGTCATCATCAC 72

QY 427 GCAATATGGTGAAGGCTTATCCATGCTATACAAACGGACAATATTACTGTGATC 486

Query Match 8.9%; Score 121.2; DB 2; Length 378;
 Best Local Similarity 58.2%; Pred. No. 9.7e-24;
 Matches 213; Conservative 0; Mismatches 158; Indels 0; Gaps 0;

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Qy 427 GCAATTAATGCTTGAAGGGCTTATCCATGCTATAAACCGAACATATTACAGCATIC 486
 Db 73 TTGAAACCTTGCAGGCTCTGGGTATTACATGCCAAAATATCTACAGTGT 132

Qy 487 CATTATGATGCTAAGGCACTGATGACCTCAAAAGTGGCATGAACATTTAGCTAAGTGC 546
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Qy 547 TTCTCCAATATTTCATTGTTCCAAATAGAAGCTGCGGAATATGCCACATTCCAGA 606
 Db 193 TTCCCCAAACGTTTCTGGCTTCCAGATGGAAACCCTGGTCTATGGGGATTCAGG 252

Qy 607 CTCCAGGTGATTTAAATGCTGGAACCTTCTGAATGCTCAATCAGTGAATAT 666
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Qy 667 GTTATCACTGTGTGGCCAAGATTCCCTGAAGTCAAATTGGATTCGTGAGAG 726
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 Db 373 CTGAAA 378

RESULT 15

US-08-118-906-3
 Sequence 3, Application US/08118906
 Patent No. 5445490

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ADDRESSSEE: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/118,906

FILING DATE: 09-SEP-1993

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-0001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 378 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA
 FEATURE: NAME/KEY: CDS
 LOCATION: 1..378
 US-08-118-906-3

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 Best Local Similarity 52.8%; Fred. No. 7.6e-16;
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Qy 655 CAGTGGAAATATGTTCAACTTGTGGGAAGATTTCCCTGAGTCAATTTCGA 714
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Qy 715 TTAGCTGAGATTGAA 731

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Search completed: February 1, 2004, 00:09:57
 Job time : 98 secs

Run on: January 31, 2004, 14:13:05 ; Search time 524 Seconds
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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4	949	69.7	1368	Sequence 7, Appl1
5	312.6	23.0	717	Sequence 1, Appl1
6	191.8	14.1	121	Sequence 12, Appl1
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8	191.8	14.1	1317	Sequence 14, Appl1
9	191.8	14.1	1317	Sequence 14, Appl1
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11	191.8	14.1	2147	Sequence 43, Appl1
12	191.8	14.1	2229	Sequence 337, Appl1
13	191.8	14.1	2319	Sequence 1555, Appl1
14	191.8	14.1	1203	Sequence 16, Appl1
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20	172	12.6	2110	Sequence 737, Appl1
21	161.6	11.9	2109	Sequence 13, Appl1
22	161.6	10.8	549	Sequence 4453, Appl1
23	147	10.8	361	Sequence 18153, Appl1
24	138.6	10.2	408	Sequence 3027, Appl1
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30	69	5.1	471	Sequence 16017, Appl1
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ALIGNMENTS

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; Publication No. US-003180778A1
; GENERAL INFORMATION:
;   APPLICANT: Schwientek, Tilok
;   CLAUSEN, Henrik
;   TITLE OF INVENTION: UDP-N-acetylglucosamine:
;   GLCNAC
;   PUBLICATOR: Galactose-beta1,3-N-Acetylgalactose-alpha-R /
;   betal,6-N-Acetylglucosaminyltransferase, C2GnT3
;   TITLE OF INVENTION: to GaINAC
;   TITLE OF INVENTION: to GaINAC
;   NUMBER OF SEQ ID NOS: 17
;   CURRENT APPLICATION NUMBER: US-10/388,307
;   CURRENT FILING DATE: 2003-03-13
;   PRIOR APPLICATION NUMBER: US-09/645,192
;   PRIOR FILING DATE: 2000-08-24
;   PRIOR APPLICATION NUMBER: US 60/150,488
;   PRIOR FILING DATE: 1999-08-24
;   SOFTWARE: FastSBQ for Windows Version 3.0
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;   ORGANISM: Human
US-10-388-307-1

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S-03-793-998-10
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Sequence No. 1
GENERAL INFORMATION
APPLICANT: I
TITLE OF INVENTION
TITLE OF INVENTION
FILE REFERENCE
CURRENT APPLICATION
PRIORITY
PRIORITY
NUMBER OF SEQUENCES

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 ; Patent No. US20020045202A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KORCZAK, BOZENA
 ; LEW, APRIL
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 ; FILE REFERENCE: GLYCO-7PL
 ; CURRENT FILING DATE: 2001-03-02
 ; EARLIER APPLICATION NUMBER: 09/495,913
 ; EARLIER FILING DATE: 2000-02-02
 ; EARLIER APPLICATION NUMBER: 60/118,674
 ; EARLIER FILING DATE: 1999-02-03
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 ; US-09-797-307-12

Query Match 14.1%; Score 191.8; DB: 9; Length 1221;
 Best Local Similarity 52.5%; Pred. No. 5.2e-44; Gaps 3;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;
 Qy 317 TGACCAGTGATGTGACATTATCGACTCTAGGTTATGCTCAAAGCTTGCTCAA 376
 Db 221 TCACCCGAGACTGGAGCACTCAGGGTGAAGGTCAATGTTCCACAGAGCA 280
 Qy 377 AGGAGGAAAGCTCCCATAGCTTCTGGTGTCCCAAAGATGCAATTATGG 436
 Db 281 AAGAAAGGGTGGAGTCCTATGCTGATCTCTATGGTATTCTGAGAAGATGAAA 340
 Qy 437 TTGAAAGGCTATCCATGCTATATACACACGACAAATTATTAATGCTATGATC 496
 Db 341 TTGAAAGGCTACTGGAGGTGTTATGCCCTGAACTATGCTATGCTATGATG 400
 Qy 497 GAAAGGACCTGATACCTCTCAAGTGGCCATGGRACAATTAGCTAAAGT 556
 Db 401 AGAGTCCCCGAAACCTCAAGGGCTCAAGGCAATTATTCCTGCTCCAAATG 460
 Qy 557 TTTCATGTTCCAAATTAGAGGCTGGTGAATGCCACATTCCGACCTCCAGGGCTG 616
 Db 461 TCTCATAGCCAGTAGCTGGTTCGGGGTTATGCCTCTGGTCAAGCTG 520
 Qy 617 ATTTAAATTGCTTGGHCCCTCTGAGCTTCATGCGAAATATGTTATCATCT 676
 Db 521 ACCTCAACTGGATGAGACTGGCTCCAGAGCTCAGTCCTGTAATCTCTGTGATA 580
 Qy 677 TTGTGGCAGGATTTCCTGAGTCATTGTTGATTTGATTTGATTTGATTTG 736
 Db 581 CATGGGACGGACTTCTCTATAGGGATGCGAGATGCTCCAGCTCAAGATG 640
 Qy 737 TCAATGGGAAATATGGAGAGGGTAAACCTAAATTTGGAAAGTTC 796
 Db 641 TCAATGGGAAATAGGATGCAAGCTGACTCTCCTAAGGCAAAAGAAACCGCTGGA 700
 Qy 797 CTTACCATCATGAACTTAGGGCTGGCTTATGATAATGTAAGCTACCAATAAGGACAA 856
 Db 701 AAATACCTTGGTAGTGAACTGATTCACACATTCACACATTCACAC 742
 Qy 857 ACATTCCTCAAGGAACCCCCATAACATGAGATATTGGCGCAGCTTGTGTT 916
 Db 743 ACAGAGAAAGATCCTCCCTPATAATTAACTATGTTACGGATGGTACATG 802
 Qy 917 TTATGTCAGCATTGTTGTAATATGTTGAACTTCAGCTGTTCTGTTCTG 976
 Db 803 TGGCTTCCCGAGATTCGTCACAGTGTGTTGAGAACTTCAACACTGATG 862
 Qy 977 CCTGGCTTAAAGACCATCTCCTGTGAGCACTTGTGCTTACCTTGATGCGGTT 1036
 Db 863 ATGGCTTAAAGACCATCTCCTGTGAGCACTTGTGCTTACCTTGATGCGGTT 922
 ; GENERAL INFORMATION:

RESULT 6
 US-09-797-207-12
 ; Sequence 12, Application US/09797207
 ; Patent No. US20020098563A1
 ; GENERAL INFORMATION:

Db 617 ACCCTCACTGATGGAGACTTGCTCAGAGCTAGGGTGAATACTTCCGTGATA 676
 Qy 677 TGTGTCGGCAAGATTTCCTGAGTCAAATTGTAATTGGTGTAGGTGAAAAAAC 736
 Db 677 CTTGGGACCACTTCCTATAAGGATAGTCAGGCTCAAGGATGT 736
 Qy 737 TCAATGGGAAATATGCTGGAGGGTGAACCCCAACAGTAATTGAAAGATTCA 796
 Db 737 TGAATGGGAGGATAGCATGGAGTCAAGGTACCTCTAGGCAAGAACCCCTGGGA 796
 Qy 797 CTTACCATCTCATGAACTTAGAGGGTGCCTTATGAAATATGTAAGCTACCAAA 856
 Db 797 AATATCACCTTGAGGTAGTGAGAGACATTAC-----CTAACCA 838
 Qy 857 ACATCTCCAAGGAAGGACCCCCATAAAGTCAGATAATTGTTGGAGCTGCTATTG 916
 Db 839 ACAAGAAGAAGGATCTCCCTTATAATTAACTATGTTACAGGAAATGCGAACATTG 898
 Qy 917 TTAACTCAAGCATTTGTAATAATTTCAGACTCAATCTCTGAGCTTTG 976
 Db 899 TGGCTTCGGAGATTGTTGTCGAACAGTTGAGAACCTTAATCCCAAACGTTG 958
 Qy 977 CCTGGTCTAAGACATACTCTCTGATGGCACTTGGTACCTGATCCGGTTC 1036
 Db 959 ATGGTAAAGACATGGATTAGCCCGAGTGAACCTCTGGCCACCCCTGCGCAC 1018
 Qy 1037 CAGGAATACCTGGGAGATTCCAGATGCCAAGCTGAGGAGATG -- TGTGTGATCTGAGAGATA 1093
 Db 1019 GGTGGATGCTGGCTGTGTCACACCCCAAGTAGACATCTAGCATGACTCTA 1078
 Qy 1094 AGACTCCCTGTCAGTGGAAATTACTATGAGGGTCTTCTATCCCAST----- 1143
 Db 1079 TTGGCAGGTGTGTCAAGTGGAGGGTCACTAGGGAGACATGATAAGGGTCTCTTATG 1138
 Qy 1144 -----TGTACTGGATCTCACCTTCGAGGGCTGTGATTTATGGAGCTGCGAARTTAAGST 1198
 Db 1139 CTCCCTCTCTGAACTCACAGGGCTATCTGGCTTATGGGCTGGAAATT 1198
 Qy 1199 GCCTTATCAAGATGGACATGGTGTGCTATAAAATTGGATTCTAAGGTGACCTATCT 1258
 Db 1199 GGTGCTTCAAACCTCACCTGTCGCCAACTGACCTGTTGACCCAAAGGTAGATGATAATG 1258
 Qy 1259 TGATTAAATGCTGGAGAAAAGCT 1283
 Db 1259 CTCTCTGCTGTGCTTAGAGATAACCT 1283

RESULT 8
 US-10-388-307-14
 Sequence 14, Application US/10388307
 Publication No. US20030180778A1
GENERAL INFORMATION:
 APPLICANT: Schwientek, Tilo
 Clausen, Henrik
 TITLE OF INVENTION: UDP-N-acetylgalactosamine- α -1,3-N-acetylglucosamine:
 Galactose-beta-1,3-N-acetylgalactosamine transferase, C2G
 FILE REFERENCE: 4503/1G031
 CURRENT APPLICATION NUMBER: US/10/388,307
 CURRENT FILING DATE: 2003-03-13
 PRIOR APPLICATION NUMBER: US/09/645,192
 PRIOR FILING DATE: 2000-08-24
 PRIORITY DATE: 1999-08-24
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 14
 LENGTH: 1317
 TYPE: DNA
 ORGANISM: Human
 US-10-388-307-14

Best Local Similarity 52.5%; Pred. No. 5.6e-44; Mismatches 0; Indels 36; Gaps 3;

Matches 517; Conservative 0; General Information: Sequence 14, Application US/10084406 ; Publication No. US20030054525A1 ; Sequence 14, Application US/10084406 ; Publication No. US20030054525A1 ; GENERAL INFORMATION:

APPLICANT: Schwientek, Till ; Clausen, Henrik

TITLE OF INVENTION: UDP-N-Acetylglucosamine: Galactose-beta,3-N-Acetylgalactoseamine-alpha-R / GlcNAc

TITLE OF INVENTION: Galactose-beta,3-N-Acetylgalactoseamine-alpha-R / GlcNAc

FILE REFERENCE: 4503/16031 ; CURRENT FILING DATE: 2002-02-25

PRIOR APPLICATION NUMBER: 09/645,192

PRIOR FILING DATE: 2000-08-24

NUMBER OF SEQ ID NOS: 17

SOFTWARE: FAST-SEQ for Windows Version 3.0

SEQ ID NO: 14

SEQUENCE TYPE: DNA

ORGANISM: Human

US-10-084-406-14

Query Match Score 191.8; Length 1317;

Best Local Similarity 52.5%; Pred. No. 5.6e-44; Mismatches 0; Indels 36; Gaps 3;

Matches 517; Conservative 0; Mismatches 432;

Query 317 TGAAAGGCTTATCCATGCTATAACCAACGACATAATTTCATGCTCATGTCATA 376

Db 317 TCACTAGAGACTGTGAGCCTTGAGCTTGAAGGAACTTCAAGATGTTCCACTGAGCA 376

Query 377 AGGAGGAAAGGCTTCCAAATGCCCTATTCTTGTGCAAAAGATTCATAATTATGG 436

Db 377 AGGAGGAAAGGCTTCCATGTTGAGCTTCAAGGAACTTCAAGATGTTCCACTGAGCA 436

Query 437 TTGAAAGGCTTATCCATGCTATAACCAACGACATAATTTCATGCTCATGTCATA 556

Db 437 TTGAAAGGCTTCCAGAACCTCAAGGAACTTCAAGGAACTTCAAGATGTTCCACTGAGCA 556

Query 497 GTAAAGCACCTGATACCTTCACAGTTCATGCTCATGACATAACGTTAGCTAATGCTTCATA 616

Db 497 AGAACGTCAGGAACTTCACAGGAACTTCAAGGAACTTCAAGATGTTCCACTGAGCA 616

Query 557 TTTCATTGTTCCAAATTAGAGCTGTGGAATATGCCACATTCAGACTCAGGGCTG 616

Db 557 TTTCATTGTTCCAAATTAGAGCTGTGGAATATGCCACATTCAGACTCAGGGCTG 616

Query 617 ATTAAATTCCTGGACCTTCGAGACTCTCAATCAGTGGAAATACTTAACT 676

Db 617 ACTCTRACTGCTGAAAGCTTGTCCAGGCTCAAGCCGTGAACTTCTCGATA 676

Query 677 TGTGTTGGCAAGAATTTCCTCTGAAGTCATGTCAGAATTGTGTTGGTCAAGATGT 736

Db 677 CATGTTGGCAAGAATTTCCTCTGAAGTCATGTCAGAATTGTGTTGGTCAAGATGT 736

Query 737 TCAATGGAGCAAATATGGTGGAGCCTGTAACAGTAATTGGAAAGATTCA 796

Db 737 TCAATGGAGCAAATATGGTGGAGCCTGTAACAGTAATTGGAAAGATTCA 796

Query 797 CTTACATCATGCAAGCTGTTGGGGTGTGGCTTATGATGAGCTACCAAATAGACAA 856

Db 797 AATATACTTGTGAGCTGTGAGACATTAACCTAACATTACAC 838

Query 857 ACATTCCTCAAGGAAAGCACCCCTTAATTAATTAACATTCAGATACTTGGTCTATTGG 916

Db 857 ACATTCCTCAAGGAAAGCACCCCTTAATTAATTAACATTCAGATACTTGGTCTATTGG 916

Query 893 ACAGAGAGAGGATCTCCCTCTTAATTAATTAACATTCAGATACTTGGTCTATTGG 893

Db 893 ACAGAGAGAGGATCTCCCTCTTAATTAATTAACATTCAGATACTTGGTCTATTGG 893

Query 917 TTAACTGTCAGCATTTGTTAAATAATTCACAACCTCCATGTCAGCTTTGG 976

Db 917 TTAACTGTCAGCATTTGTTAAATAATTCACAACCTCCATGTCAGCTTTGG 976

Query 958 TGGCTTCCCAGGAGATTCTGTCAGATTCAGGAACTTCAACACTGTTGG 958

Db 958 TGGCTTCCCAGGAGATTCTGTCAGATTCAGGAACTTCAACACTGTTGG 958

Query 977 CCTGGCTCAAAGACACATCTCTGTGAGGACTTCTGTTGAGCTTCTGTCACCT 1036

Db 977 CCTGGCTCAAAGACACATCTCTGTGAGGACTTCTGTTGAGCTTCTGTCACCT 1036

Query 995 ATGGGTAAAGACACTTATGGCCAGATGAAACCTCTGGGACACCTTGCGCAC 1018

Db 995 ATGGGTAAAGACACTTATGGCCAGATGAAACCTCTGGGACACCTTGCGCAC 1018

Query 1037 CAGGAAATACTGGGAGGATTTCAGATCAGCCAGGATG---TGTCTGTCAGAGATA 1093

Db 1037 CAGGAAATACTGGGAGGATTTCAGATCAGCCAGGATG---TGTCTGTCAGAGATA 1093

Query 1094 AGACTGGCCTGTCAGTGGAAATPACTATGAAAGCTTCTTCATCCCTGTT 1143

Db 1094 AGACTGGCCTGTCAGTGGAAATPACTATGAAAGCTTCTTCATCCCTGTT 1143

Query 1079 TGGCCTGGGCTGTCAGTGGCAGGCTCATGAGGAGACATGCTAAGGGCTCTTATG 1138

Db 1079 TGGCCTGGGCTGTCAGTGGCAGGCTCATGAGGAGACATGCTAAGGGCTCTTATG 1138

Query 1144 ----TGTACTGAGCTCACTTCAAGGTTGAACTGTTGAGCTGAGATTAAGGT 1198

Db 1144 ----TGTACTGAGCTCACTTCAAGGTTGAACTGTTGAGCTGAGATTAAGGT 1198

Query 1139 CTCCCTGCTCTGGAATCCAGGCGGGCTATCAGCTGGCTGGGCCTCTGAAATT 1198

Db 1139 CTCCCTGCTCTGGAATCCAGGCGGGCTATCAGCTGGCTGGGCCTCTGAAATT 1198

Query 1199 GCTCTPATCAAGAGTGGACATCTGGTTGGCTAATAATTGATTAAAGTGGACCTPATCT 1258

Db 1199 GCTCTPATCAAGAGTGGACATCTGGTTGGCTAATAATTGATTAAAGTGGACCTPATCT 1258

Query 1259 TGAATTAATGCTGGCAGAAAGCT 1283

Db 1259 TGAATTAATGCTGGCAGAAAGCT 1283

Query 1259 CTCTCATGTTGAGGAACTCT 1283

Db 1259 CTCTCATGTTGAGGAACTCT 1283

QY 1037 CAGGAATACCTGGGAGATTCCAGATCAGGCCAGATG--TGCTCTGATCTCGAGAGTA 1093
 Db 1019 GGTGGATGCCTGCTCTGTCCTCAACCCCAAAGTCAACTCTAACATGAACTCTA 1078
 QY 1094 AGACTCGCTTCAACTGGAAATTACTATGAGGCTTTCTAACCTCCAGT--- 1143
 Db 1079 TTTCCAGGCTGTCAACTGGGGCTCATGGGAGACATCGATAAGGGTCCCTATG 1138
 QY 1144 ---TGTACTSGATTCACCTTCAGGCTGTTGATTATGGAGCTGAGAMTTAAGT 1198
 Db 1139 CTCCCTGTCGTCGAAATCACCGGGCTATCTGGCTTAGGGAGCTTGAATT 1198
 QY 1199 GGTATTAAAGATGGCATGTTGGCTATAAATTGGTTTAAGGTGAACTATCT 1258
 Db 1199 GATGCTTCAAACCACATCACCTGGCCACAAAGTTGCCCACAAAGTGTATAATG 1258
 QY 1259 TGATTAATGGTGGCGAAGAANGCT 1283
 Db 1259 CTCTTCAGTGCTTAGAGATTAACCT 1283

RESULT 10
 US-09-737-207-3
 ; Sequence 3, Application US/03797207
 ; Patent No. US20020059856A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KORCZAK, BOZENA
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLYGLOSAMINYLTRANSFERASE
 ; FILE REFERENCE: GLICO-P1
 ; CURRENT FILING DATE: US/09/797,207
 ; EARLIER APPLICATION NUMBER: 09/1495,913
 ; EARLIER FILING DATE: 2000-02-02
 ; EARLIER APPLICATION NUMBER: 60/118,674
 ; EARLIER FILING DATE: 1999-02-03
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 11
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
 ; OTHER INFORMATION: DNA A

US-09-737-207-3
 ; Sequence 3, Application US/037981353
 ; Patent No. US20020160382A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lasek, Amy W.
 ; ADDRESS: Jones, David A.
 ; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
 ; FILE REFERENCE: PA-0038 US
 ; CURRENT APPLICATION NUMBER: US/09/981,353
 ; CURRENT FILING DATE: 2001-10-11
 ; NUMBER OF SEQ ID NOS: 194
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 43
 ; LENGTH: 2147
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; OTHER INFORMATION: Incyte ID No. US20020160382A1 2921009CB1
 ; US-09-981-353-43

QY 317 TGACAGCAGATGTCGACATTATCACACTTAAGGGTTATGCCAAAAGCTTGTCICAA 376
 Db 584 TACAGAGACGTTGAGCTCAAGCTGAGCTTCCCTGAGCA 643
 QY 377 AGGAGGAAAAGCTTCCATAGCCATTCTTGTGTCACAAAGTGCATTATGG 436
 Db 644 AGAGAGACGTCGAGTCCCTATGCATCTATGATTCAAGAGTGAART 703
 QY 437 TGTAGAGCTTCCAGCTTACACAGCAATTATGTCATCTATGTC 496
 Db 704 TGTGAAGGCTACTGGAGCTGTGTATGTCCTCAGACATATCTGTGCGATG 763
 QY 497 GTAGGACCTGATACTTCAAGTGGCCATGAACTATTGTAAGTGCCTTCCAAATA 556
 Db 764 AGAGTGCCTCAAGAACCTTCAGAGGCGCTCAAGCAATTCTCTTCCTCCAAATG 823
 QY 557 TTTCATGCTCAAAATTAGGGCTGTTGAAATGCGCAATTCCAGCTGGCT 616
 Db 824 TCTTCATGCGCTAAGCTGTCGACCTTCATGAGTGTCAATCCAGTGGAAATATGTTATCACT 676
 QY 617 ATTAAATGGTGTGCGACCTTCATGAGTGTCAATCCAGTGGAAATATGTTATCACT 676

Query Match Score 191.8; DB 9; Length 2108;
 Best Local Similarity 14.1%; Pwd. No. 7.4e-44;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

Query Match Score 191.8; DB 10; Length 2147;
 Best Local Similarity 14.1%; Pwd. No. 7.5e-44;
 Matches 511; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

317 TGTACAGTATTGACATTATCAGACTCTAAGGGTTATGCCCAAAGCTGTCTCAA 376
 Qy 683 TGTACAGAGACTGTGGCACTTGAAAGTCAATTCCAAATAGCTTCTGCTGCA 742
 Db 377 AGAGGGAAAGCTTCCAATAGCTTCTGCTGCTGCAAGTCATACTGTCCTGAGCA 746
 Qy 743 AAGAAGGTGGAGTCCATGATCTAGTGAATCTAGGATTCAATGAGATGAAACT 802
 Db 437 TGTAAAGGCTTATCCATGATATAACACCGCAAAATTCTACTGCTCATATGATC 496
 Qy 803 TGTAAAGGCTTATCCATGATATAACACCGCAAAATTCTACTGCTCATATGATC 496
 Db 497 GTAAAGGACCTGATACCTCAAAAGTGCCTATGACAATTTAGGTAAGGCTTCTCCATA 556
 Qy 863 ACAGTCCCAGAACTTCAAGGGCTCALAGCAATTTCGTCMCCAAATG 922
 Db 557 TTTCATGGTCCAAATTAGGGTGTGAAATGGCTTCTGCAACTCAGCTG 616
 Qy 923 TCTTCATGGCGTAAGCTGGTGTGTTATGCCCTCTGGTCAAGGCTG 982
 Qy 617 ATTAAATTTGCTGAACTCTGAACTTATGTTAGTGTATGAAATATGTTATGATC 676
 Db 983 ACTTCACTGTTGAAAGCTGGTGGACTCTCTGAAAGTCTGATTCAGTGGAAAT 1042
 Qy 677 TGTGTGGCAAGATTCCCTGAGTCAATTGTAATTGTAATTGGTCAAGAGTGA 736
 Db 1043 CTGTGGACGACCTCTTAAAGGATGAGCTGGTCAAGGTTGTCAGGCTCTCAAGATG 1102
 Qy 737 TCAATGGAAATAATGTTGGAGGGTAAACCCCAAAACTTAATTGAAAGATCA 796
 Db 1103 TAAATGGAGGATACATGGATGAGGTTCACTCTCPAAGCCTAACCGCTGGA 1152
 Qy 797 CTTACCATCATGAACTTAGAGGGTGCCTTATGATATGTAAGGAA 856
 Db 1163 ATATACCTTGAACATTAGAGGGTGCCTTATGATATGTAAGGAA 1204
 Qy 857 ACATCTCAAGGAAACCCCAAAACTTAATTGAAAGATCA 916
 Db 1205 AAAGAAGAAGGATCTCCCTTAAATTACTCTTACGGGATGGTACATTG 1254
 Qy 917 TTAACTGTCAGCATTGTAATAATTTCAACACTCTGTTGAACTGTTTTG 976
 Db 1265 TGGCTTCCCGAGATTCTGCAACTTCAAGTGTGTTGAGAACCTTAATCCACACTGATG 1324
 Qy 977 CCTGGCTAAAGACACATCTCCTGATGAGCACTTGGCTTACCTGATTGCTGCTC 1036
 Db 1325 ATGGTAANAGACACTTAACTTCAAGTCACTTAACTGCTGAACTCTGCTGAC 1384
 Qy 1037 CAGGATACTGGGGAGATTCTCAGATCAGCCAGGATGTTGCTGAGAGTA 1093
 Db 1385 GTGGATGCCCTCAACCAACCCAGTACACATCTGACATCTCACTCTCA 1444
 Qy 1094 AGACTGGCTTCTGAGCTGAACTTACATGAGCTTCTTCTCCAGT 1143
 Db 1445 TGGCAAGGGCTGGTCAAGTGGCAACTGCTGAACTCTGAGCTGAACTGCTTATG 1504
 Qy 1144 ----TGTACTGGATCTCACTTCAAGGGTGTGATTATGGAGTGTGAGATTAAGGT 1198
 Db 1505 CTCCCTGCTGCTGAACTCCAGGGTATCTGGGTGTTATGGGTGCTGAACTGAACT 1564
 Qy 1199 GCTTATCAAGATGAGCAATTGGTTGGTAAATAATTGATTCTAAGTGGACCTTATCT 1258
 Db 1565 GATGTTCAAAACATCACCTGTTGGCCRACTGTTGACAGTTGACCCGAAAGTAAATG 1624
 Qy 1259 TGTAAATGTTGGAGAAAAGCT 1283
 Db 1625 CTCTCTAGTGTGTTAGAAGATACT 1649
 Qy 1223 AATATCACTTGTGAGTGTGAGACATTAAC 1264
 Db 857 ACATCTCAAGGAAAGCTCCCTGAGTATTTGGCTGCTGCTTATTTG 916
 Db 1265 ACAGAAGAAGGATCTCCCTTATAATTAACTGTTCACTGGGATGCTACATTG 1324
 Qy 917 TTTAACTCAACATTGTTGAAATATTTCAACACTCATGTTGAGCTTTTG 976
 Db 1325 TGGCTTCCGGAGATTGTCCTAAACTCCCTAATCCCCTTAACTGTTGAGCTGTTG 1384

Qy	977	CCTGGTCAAGACATACACTCCGTGATGAGCACTTGGGTACCTTGATGGTC 1036	
Db	1385	AATGGTAAAGCACCATTAGCCAGATGACCTCGGCCAGGACACTCAGGTCAC 1444	
Qy	1037	CAGGAATACTCTGGGAGATTCCAGATCAGATTCAGCCAGATGACACTCAGGTCAC 1093	
Db	1445	GFTGGATGCCTGCTGCTGTTCCAACCCCCAAGTACGACAATCTGAGATCACTCTA 1504	
Qy	1094	AGACTCGCCTTGTCAACTGGAAATTACTATGAGGGTTTCTATCCCGAT----- 1143	
Db	1505	TGGCAGGGGGTGTGATGGCGGGTGTGAGCTGAGGAGCATGATAAGGGTGTCTATG 1564	
Qy	1144	-----TGACTGGATCTCACCTTCGAAGCGCTGTTATGGAGCTGCGAATTAGGT 1198	
Db	1565	CTCCCTGCTCTGAAATCACCAGCGGGCTATCTGCTGTTATGGGCTGGGATGTT 1624	
Qy	1199	GGCTTATCAAAGTGGACATCGTTGCTAAATAAATTTGATTCAGGTGACCCCTATCT 1258	
Db	1625	GGATGCTTAAACCATACCTGGCTGGCCACAACTTGACCCAAAGGTGATGATG 1684	
Qy	1259	TGATAATAATGCTGGCGAAAGCT 1283	
Db	1685	CTCTCTGCTTAGAAGATACT 1709	
RESULT 13			
US-10-106-698-1555			
; Sequence 1555, Application US/10106698			
; Publication No. US20030109690A1			
; GENERAL INFORMATION:			
; APPLICANT: Rubin et al.			
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides			
; FILE REFERENCE: PA005P1			
; CURRENT APPLICATION NUMBER: US/10/106,698			
; PRIOR APPLICATION NUMBER: PCT/US00/26524			
; CURRENT FILING DATE: 2002-03-27			
; PRIOR FILING DATE: 2000-09-28			
; PRIOR APPLICATION NUMBER: US 60/157,137			
; PRIOR FILING DATE: 1999-09-29			
; PRIOR APPLICATION NUMBER: US 60/163,280			
; PRIOR FILING DATE: 1999-11-03			
; NUMBER OF SEQ ID NOS: 8564			
; SOFTWARE: PatentIn Ver. 3.0			
; SEQ ID NO: 1555			
; LENGTH: 2236			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: mIBC feature			
; LOCATION: (2215)..(2215)			
; OTHER INFORMATION: n equals a,t,g, or c			
; NAME/KEY: mIBC feature			
; LOCATION: (2223)..(2223)			
; OTHER INFORMATION: n equals a,t,g, or c			
US-10-106-698-1555			
Query Match Score 191.8; DB 15; Length 2236;			
Best Local Similarity 52.5%; Pred. No. 7.7e-44; Mismatches 432; Indels 36; Gap -3;			
Matches 517; Conservative 0; Minmatches 432; Indels 36; Gap -3;			
317 TGACCAAGTGTGACATTATGCACTTAAGGGTTATGCTCAAAAGCTTGTCTCA 376			
Db 750 TCACAGAGACTGGGACTTCCATGAGCTTCCATGAGCTTCCACTGAGCA 809			
Qy 377 AGGGAGGAGAAAGCTTCCAAATAGCCTATCTTGTGTTCCACAAAGATGAAATTGGG 436			
Db 810 AAGAGAGCTGGAGTCTTCCATGCACTCTATGGTGAATGATGAGATGAAACT 869			
Qy 437 TTGAAGGCTTATCCTGCTATATACACCGCAAAATTACTGCTCCATTATGATC 496			
Db 870 TTGAAGGCTTACTGGGGTGTGATCCCTCAGAACATATGCTGTCTGTGCTG 929			

Qy	497	GTTGGCACTGTACCTTCAAGTCAGGCTCCAGAACATTAGTCGTTAGCTGTTCCGCTATA	556
Db	930	AGAGTCCTCAAGAACPTTCAGGGCTGGATAATGCCAACAAATTCTTGCTTCCAAATG	989
Qy	557	TTCATGCTCCAAATTAGGGCTGGATAATGCCAACAAATTCTTGCTTCCAAATG	616
Db	990	TCTCATGGCGTAAGTCGTTCTGGACCTTCAGAGCTTCAAGTGAATAATGGTAACT	1019
Qy	617	ATTTAATGCTGCTCCAAATTAGGGCTGGATAATGCCAACAAATTCTTGCTTCCAAATG	676
Db	1050	ACCTCACTGGATGAGCTGGCTCTGGCTGAAATCTCTGAAATCTCTGAAATACTTCTGAAATA	1109
Qy	677	TGTGGCAAGTTTCCCAGAACGCAATTTCAGTGTGAAACTGAACTTGTGAAATAACAA	736
Db	1110	CATGGACGGACTTCTATAAGGCAATGAGCTTCTAGACAGAACCCAAACGAA	1169
Qy	737	CTATGGACCAATAATGTTGGACCTGAACTGAACTTGTGAAAGCTTAAAGGCAA	796
Db	1170	TGATGGGGATAGATGGTCAAGTGGTACCTCTAGCAAGAACCCAAACGAA	1229
Qy	797	CTTACCATGAACTTAGCCTAGGCTTCTATGAAATATGAAAGCTTAAAGGCAA	856
Db	1230	AATATCACTTGGGGTAGAGAACATTAACATTACAC-----CTAACCA	1271
Qy	857	ACCTCTGGAGGAACTGGACCTGAACTTCAAGATATGTTGGCAGCTGCTTATTTTG	916
Db	1272	ACAGGAAGAGGTCTCCCTTATAATTAACTATGTTAACGGGATGCTAACATTG	1331
Qy	917	TTTAAGTCAGGTTGGTAAATAATTCTAACACTCCATCCTTCAGACTTTTGT	976
Db	1332	TGGCTTCCGAAATTGTCTCAACAGCTTGTCAAACTCCAAACAACTGATTG	1391
Qy	977	CTGGCTAAAGACACATACTCTCGTATGAGGCAATTGGGAACTTGATGGCTTC	1036
Db	1392	AAATGGTAAAGACACACTTAAAGGCAACTTAAAGGCAACTTAAAGGCAACT	1451
Qy	1037	CAGGAAATACCTGGGAGATTTCAGATTCAGCCAGATG--TGTCGATCTGGAGTA	1093
Db	1452	GGTGGATGCTGGCTGCTGTTCCAAACCCCAAGTACAGCATCTGAGCATCTCA	1511
Qy	1094	AGACTCGCTTCACAAGCTGGATTACTATGAGGGTTTCTATGCCAGT-----	1143
Db	1512	TTGGCAAGGTGTCAGGGCTGATGGCAAGTCATGGGACATCTGATGGGTGCTCCTTATG	1571
Qy	1144	----TGTACTGCTATCCTACCTTCAGGCTGCTATTATGGACCTGCTGAGAAATTAGGT	1198
Db	1572	CTCCGTCTGCTGAACTCACAGGCTCTATGCTGGCTGCTGGAACTGTTGAAATT	1631
Qy	1199	GGCTTATCAAGATGGACATCTGGTCTGCTATAAATTCGTTGGACCTATCT	1258
Db	1632	GATGCTCAAAACCATACCTCTGGCTGCTGAAAGTGGAGATGATAATG	1691
Qy	1259	TGATTAATGCTGGCGAAAGCT	1283
Db	1692	CTCTGCTGCTGAAATACT	1716
RESULT	14	US-09-874-390-1	
;	Sequence 1, Application US/09874390		
;	Patient No.: US200200516561		
;	GENERAL INFORMATION		
;	APPLICANT: Clausen, Henrik		
;	TITLE OF INVENTION: UDP-N-Acetylglucosamine:		
;	Galactose-beta-1,3-N-Acetylgalactosamine-alpha-R /		
;	TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylgalactosamine-alpha-R (GlcNAc to GalNAc)		
;	TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4		
;	FILE REFERENCE: P199801704 NO JUNY		
;	CURRENT APPLICATION NUMBER: US/09-874,390		
;	CURRENT FILING DATE: 2001-06-04		
;	PRIOR APPLICATION NUMBER: DK PA 1998 01605		
;	PRIO RTTING DATEP: 1998-12-04		

NUMBER OF SEQ ID NOS: 10
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 1
 LENGTH: 23.9
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (496)..(1809)
 OTHER INFORMATION: cDNA sequence
 US-09-874-390-1

Query Match 14.1%; Score 191.8; DB 9; Length 2319;
 Best Local Similarity 52.5%; Pred. No. 7.9-44; Gaps 3;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

Qy 317 TGAACCTGATTGTGACATTATCAGACTTAAGGTATTGGTCAAAGGTGTGTCMAA 376
 Db 812 TCAACAGAGACTGTGAGCACTTCAGGTGAAAGTCATACTGTTCCACTGAGCA 871
 Qy 377 AGGAGGAGAAAGGTTCCCATAGCTTCTTGTGTTCTCCAAAGATGCAATTATGG 436
 Db 872 AGAAAGGGAGAGTCCATTGATCTATGGATTCTGAAAGTGAAGTGAAGACT 931
 Qy 437 TTGAAGGCCTTATCCATGCTPATATAACCGCACAATTGGTACTCCATTATGATC 496
 Db 932 TTGAAGGCCTACTGGAGCTGTTGATGCCCTCTAGAACATATACTGTTGCGATG 991
 Qy 497 CTAAAGCACCTGATACTTGAAAGTGCAATTAGGTAAGGCTCTCCAAATA 556
 Db 992 AGAACTCCAGAAACTTCAGAGGCTTCAAGGCAATTGGCAATTTCGTCCTCCAATG 1051
 Qy 557 TTTCATGTTCCAAATTAGGGCTGGAATTGGCCACATTCGCAACTCAGCTG 616
 Db 1052 TCTTCATAGCCGTAAGCTGAGCTGTTGGCTGGTGTGCTCCGGTCAAGCTG 1111
 Qy 617 ATTAAATTTGTTGGGACTCTGGAGCTCTGAAGTCCTCAATCAGTGAAATTGGTAACT 676
 Db 1112 ACTCTAACCTGATGAAAGACTGCTCCAGGCTCAGTGCGTGGAAATTACTTCCTGATA 1171
 Qy 677 TGTGTTGGCAGAATTCCCTGAGGTAAATTGTTGTTGGTCTCAAGTGTGAAAC 736
 Db 1172 CATTGTTGGGACGGACTCTCTATAGAGGAACTGGAGATGGTCCGGCTCTCAGTGT 1231
 Qy 737 TCAATGGAGAAATATGGAGGACCGTGAACCCCAAAACACTTAATTGGAAAGTTCA 796
 Db 1232 TGAATGGGAGAATAGCTGAGTGTGAGGTGAGGTGAACTCTCCGGTGG 1291
 Qy 797 CTTACCATCATGAACTTAGAGCGGTGCTTATGAAATATGTAAGCTACCAATAAGGCAA 856
 Db 1292 ATATATCTTGTGAGGTGAGTGTGAGACATTAACCACTTACCA 1333
 Qy 857 ACATTCACAGAAAGCACCCTTACATATTGAGATTGGGAGCTGTATTG 916
 Db 1334 ACAGAAAGAAAGCTTCCCCTTAAATTAACTATGTTAGGGTATGGTACATTG 1393
 Qy 917 TTAAATGTCAGCATTGTTAAATAATTTCACAAACTCCATGGTCAGATTTTGG 976
 Db 1394 TGGCTTCCGGAAATTTCGTCAACTCTGGTAACTGTTGGAGAACCTTACATGTTG 1453
 Qy 977 CCTGGCTTAAGACACATACATCTGGTAAATTACTAGTGAAGCTTCTTCCAGT --- 1143
 Db 1454 ATGGTAAAGAACACTTATGGCCAGTGAACCTCTGGGACCTTCAGGTGCAAC 1513
 Qy 1037 CGGAAATACCTGGGAGATTTCAGATCAGCCGGATGTTGGGACCTTGTGTTATTG 1093
 Db 1514 GTGGTGGCTCTGGCTGTTGGCTCAACCCAGTACAGACATCTGAGCTCA 1573
 Qy 1094 AGACTGCGCTTGTGCAAGTGGAAATTACTAGTGAAGCTTCTTCCAGT --- 1143
 Db 1574 TGGCAAGGCTGCTCAAGTGGGAGCTGAGAACATGCAAGTAATTGGAAAGTCA 1633
 Qy 1144 ----TGTACTGGATCTCACCTGAAAGCTGTATTATGGAGCTGCAAGATTAGGT 1198

RESULT 15
 US-0-388-307-16 ; Sequence 16; Application US/10388307
 ; Publication No. US20030180778A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Schwientek, Tilo
 ; CLAUSEN, Henrik
 ; TITLE OF INVENTION: UDP-N-Acetylglucosamine-
 ; alpha-R / GlCNAC
 ; TITLE OF INVENTION: Galactosaminyltransferase, C2Gnt3
 ; EPO REFERENCE: 4503/16031
 ; CURRENT APPLICATION NUMBER: US/10/388,307
 ; CURRENT FILING DATE: 2003-03-13
 ; PRIOR APPLICATION NUMBER: US/09/645,192
 ; PRIOR FILING DATE: 2000-08-24
 ; PRIOR APPLICATION NUMBER: US 60/150,488
 ; PRIOR FILING DATE: 1999-08-24
 ; SEQ ID NOS: 17
 ; SOFTWARE: FASTSEQ for Windows Version 3.0
 ; SEQ ID NO 16
 ; LENGTH: 1203
 ; TYPE: DNA
 ; ORGANISM: Human
 US-10-388-307-16

Query Match 13.6%; Score 185.7; DB 13; Length 1203;
 Best Local Similarity 52.1%; Pred. No. 41-42;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

Qy 327 TTGTGACATTATCAGACTCTGAAGCTTATGCTCAAAAGGAGGAGA 386
 Db 213 TTGAAGGAATTCTGACCCAGGACTACATCACACATCACGCCTTATCTAAGGAGAGC 272
 Qy 387 AAGCTTCCAAAGGCCATTCTTGTGCAAAAGTGCACATTATGGTGAAGGCT 446
 Db 273 TGACTTTCCTGGCATATAATGGTCACTCATCATCTTGCAGGGT 332
 Qy 447 TAATCCATGCTATACACCGCACATATTACTGCATCATATGTTAGGCACT 506
 Db 333 CTTCCGGCTTATTACATGCCAAATAATCTACCTGGTCACTGGTCACT 392
 Qy 507 TGATACCTTCALAGTGGCCATGAACTTGGTCAATATTTCTATGCT 566
 Db 393 AACCTGAATTAAAGCTGGGTAGGCAACTTAACTGCTCCAAAGGTTTCTGGC 452
 Qy 567 TTCCGAAATTAGGGCTCTGGCTGAACTATCCCACTTCAAGGTGTTAAATTG 625
 Db 453 TCCAGATGGACCCCTGCTATGAGGAACTTCAGGCTTCAAGCTGAACT 512
 Qy 627 CTTGTCGACCTTCTGAGTCTTCAATCCAGTGGAAATATGTTACACTTGTGGCA 686
 Db 513 CATTAGAGATCTTCTGCTCTGAGTCACTTCAACCTGGTGGCA 572
 Qy 687 AGATTTCCCTGAACTGCAATTGGTCAAGCTGAACTTCAATGGAGC 746
 Db 573 AGACTTCCCTGAAACCACTGAAATTGTTGAGGTTAAAGGTTAAAGGTA 632
 Qy 747 AATATGGTGGAGACCTGAACTCCACAGTAAATTGGAAAGTCACTTACATCA 806
 Db 633 AAATATCACCCTGGGGCTGCTGCCCCAGCTCATCCAACTTGGACTAAATGTCGA 692

Qy	807	TGAACTTAGCGGGCCTPATGATAATGTGAAGCTACCAATAAGGACAACATCTCCAA	866
Db	693	CCAAAGGCCCTGGCCA-----AAGAGCTTTCCTATGTGATAAGAACAGCGTGAA	746
Qy	867	GGAAAGACCCGCCATAACATTAGATAATTGTGGAGCTTATTTGGTTAGTCA	926
Db	747	ACCGCCTCCCCCCTGATACTTCACAAATTACTGGCTCTGCCTAATGGCTCATTCAG	806
Qy	927	AGCATTTGTAATAATAATTTCACAACTCCATGGTCAAGACTTTTGCGTGTCAA	986
Db	807	AGAGTTGCCAACTTGTTCTGATGACCTTGGCTACTTGTGATTTGCTCAAGTCCAA	866
Qy	987	AGACACATACTCTCCCTGATGAGCACTTGGCTACTTGTGATTCAGGATAACC	1046
Db	867	GAACACTTTCAGTCCGATGATTCTGGTACACTCAATAAGATTCCAGTGTCCC	926
Qy	1047	TGGGAGATTTCAGATCAGCCAGGCTTTCGATGCTGAGAGTAAGACTCGCTTGT	1106
Db	927	TGGCTCTATGCAAATGCAATCCGACTG-----GAAACCTAGACCTAT	971
Qy	1107	CAAGTGAAATTACTGAAAGCTTTCPATCCCAAGTGTACTGGAACTCACCTTGAAAG	1156
Db	972	AAGATGAACTGAACTGAAAGACACGGGG----TGCCACGGCCACTATGTAATGG	1028
Qy	1167	CCTGTGTTATTTAGGCTGCAAGATTAGGTGCTTATCAAGATGACAATGGTTGC	1226
Db	1029	TATTTGTATCTGAAACCGAGACTTAAGTGGCTGTAAATCACAAGCGCTGTTGC	1088
Qy	1227	TATAAATTGATTCTAAGGTGACCCATCTGATTAAATGGTTGGCAGAAAGCTGAA	1286
Db	1089	TAAACAAGTTGGCTTAATACCTACCCCTTAATCTGTGAAATGGCTAGACTGGCATCG	1148
Qy	1287	AGAA 1290	
Db	1149	CGAA 1152	

Search completed: February 1, 2004, 00:18:53
 Job time : 528 secs

Db 366 WQHGRDIDKGAPYAPCGSIHQRAICVYAGGDNLWQLQNHLLANKFDPKVDNALQCLB 425
 Qy 426 EYL 428
 Db 426 EYL 428

RESULT 2
 Sequence 4 Application US/07955041
 Patent No. 5560733
 GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 ATTORNEY: BIERHUIZEN, MARTI FA

TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
 LEUKOSTALIN AND A METHOD FOR CLONING PROTEINS HAVING
 ENZYMIC ACTIVITY

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
 ADDRESSEE: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 CITY: SAN DIEGO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/955,041
 FILING DATE: 1992/10/01
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHERYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEX/FAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 428 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-0-955-041-4

Qy 304 YFVLSOAFVYCYTNNNSIVOPFAWSKDTYSDEHFWATLIRYGPGRISRSAQ-DVSDL 362
 Db 288 YFVVSREIVGVQLQNSKIKMLMATAQDTYSPLPASHKVDISDM 347
 Qy 363 QSKTRLYKNNYYGFF---YPSCTGSHLRSVSYCITYGAELFLWIKDGHWFANKFDSKVD 417
 Db 348 QAVARFVKWQFPEGDVSKGAPYPDCGVRSVCIFGAGDLWWMLRKHLFANKFDVVD 407
 Qy 418 PILIKLAAEKEEQ 431
 Db 408 LPAIQCLDEHLRHK 421

RESULT 3
 US 08-227-455-4
 Sequence 4 Application US/08227455
 Patent No. 564832

GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 ATTORNEY: BIERHUIZEN, MARTI FA

TITLE OF INVENTION: A NOVEL BETA-6
 N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
 LEUKOSTALIN AND A METHOD FOR CLONING PROTEINS HAVING
 ENZYMIC ACTIVITY

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
 ADDRESSEE: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 CITY: SAN DIEGO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/227,455
 FILING DATE: 14-APR-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHERYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9957
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEX/FAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 428 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-0-955-041-4

Qy 28 LILKLAVNRLF--POKDYLV-EYSLSTSPTFNRTHVDE--VRY-----EV 71
 Db 1 MLRTLRRRFSSPTKYMFLVLSLTFSVIR--THQKFVFSTRLLAGENPSSDI 57
 Qy 72 NCSGTYEQBLEIGK-----SLEIRRDIDLEDDVVANTSDDCIYQPLRGAQKLVs 125
 Db 58 NCKTVLQGDYNEIQKVKELEITYKFKGP--RWTDPDDYINMTSDSSPIRKRVIVEPLS 115
 Qy 126 KEEKSFPPIAYSLVYHKDAIMVERLTHAIVNQNTYCHYDRAADPFKVMNLLAKCFSN 185
 Db 116 KEFAEPPIAYSIVVHKIEMLDRLLRATYMPNFYCVHDYKSEDSYLAAGMFCFSN 175
 Qy 186 IFIASKLEAVYAHISRLLOADNLCLSKSTOWKCVINTLGODFPLKSFNELYSELCK 245
 Db 176 VFASRLESVYASWSRVAIDLNCMOLYAMSAWKLINLGMDPIKTNLTVRQJL 235
 Qy 246 LNGAMMLETYKPPNSKLERFTYHHLERPVYY--KLPTRNISKEAPPNIQIFVGSA 303
 Db 236 LMGENNLETRMPSHKEERW-----KKRYZVNGL-TNTGTVMPLPLETLFGSGA 287

Qy 28 LILKLAVNRLF--POKDYLV-EYSLSTSPTFNRTHVDE--VRY-----EV 71
 Db 1 MLRTLRRRFSSPTKYMFLVLSLTFSVIR--THQKFVFSTRLLAGENPSSDI 57
 Qy 72 NCSGTYEQBLEIGK-----SLEIRRDIDLEDDVVANTSDDCIYQPLRGAQKLVs 125
 Db 58 NCKTVLQGDYNEIQKVKELEITYKFKGP--RWTDPDXINNTSDCSSPIRKRVIVEPLS 115
 Qy 126 KEEKSFPPIAYSLVYHKDAIMVERLTHAIVNQNTYCHYDRAADPFKVMNLLAKCFSN 185
 Db 116 KEFAEPPIAYSIVVHKIEMLDRLLRATYMPNFYCVHDYKSEDSYLAAGMFCFSN 175
 Qy 186 IFIASKLEAVYAHISRLLOADNLCLSKSTOWKCVINTLGODFPLKSFNELYSELCK 245
 Db 176 VFASRLESVYASWSRVAIDLNCMOLYAMSAWKLINLGMDPIKTNLTVRQJL 235
 Qy 246 LNGAMMLETYKPPNSKLERFTYHHLERPVYY--KLPTRNISKEAPPNIQIFVGSA 303
 Db 236 LMGENNLETRMPSHKEERW-----KKRYZVNGL-TNTGTVMPLPLETLFGSGA 287

Qy 28 LILKLAVNRLF--POKDYLV-EYSLSTSPTFNRTHVDE--VRY-----EV 71
 Db 1 MLRTLRRRFSSPTKYMFLVLSLTFSVIR--THQKFVFSTRLLAGENPSSDI 57
 Qy 72 NCSGTYEQBLEIGK-----SLEIRRDIDLEDDVVANTSDDCIYQPLRGAQKLVs 125
 Db 58 NCKTVLQGDYNEIQKVKELEITYKFKGP--RWTDPDXINNTSDCSSPIRKRVIVEPLS 115
 Qy 126 KEEKSFPPIAYSLVYHKDAIMVERLTHAIVNQNTYCHYDRAADPFKVMNLLAKCFSN 185
 Db 116 KEFAEPPIAYSIVVHKIEMLDRLLRATYMPNFYCVHDYKSEDSYLAAGMFCFSN 175
 Qy 186 IFIASKLEAVYAHISRLLOADNLCLSKSTOWKCVINTLGODFPLKSFNELYSELCK 245
 Db 176 VFASRLESVYASWSRVAIDLNCMOLYAMSAWKLINLGMDPIKTNLTVRQJL 235
 Qy 246 LNGAMMLETYKPPNSKLERFTYHHLERPVYY--KLPTRNISKEAPPNIQIFVGSA 303
 Db 236 LMGENNLETRMPSHKEERW-----KKRYZVNGL-TNTGTVMPLPLETLFGSGA 287

Qy 28 LILKLAVNRLF--POKDYLV-EYSLSTSPTFNRTHVDE--VRY-----EV 71
 Db 1 MLRTLRRRFSSPTKYMFLVLSLTFSVIR--THQKFVFSTRLLAGENPSSDI 57
 Qy 72 NCSGTYEQBLEIGK-----SLEIRRDIDLEDDVVANTSDDCIYQPLRGAQKLVs 125
 Db 58 NCKTVLQGDYNEIQKVKELEITYKFKGP--RWTDPDXINNTSDCSSPIRKRVIVEPLS 115
 Qy 126 KEEKSFPPIAYSLVYHKDAIMVERLTHAIVNQNTYCHYDRAADPFKVMNLLAKCFSN 185
 Db 116 KEFAEPPIAYSIVVHKIEMLDRLLRATYMPNFYCVHDYKSEDSYLAAGMFCFSN 175
 Qy 186 IFIASKLEAVYAHISRLLOADNLCLSKSTOWKCVINTLGODFPLKSFNELYSELCK 245
 Db 176 VFASRLESVYASWSRVAIDLNCMOLYAMSAWKLINLGMDPIKTNLTVRQJL 235
 Qy 246 LNGAMMLETYKPPNSKLERFTYHHLERPVYY--KLPTRNISKEAPPNIQIFVGSA 303
 Db 236 LMGENNLETRMPSHKEERW-----KKRYZVNGL-TNTGTVMPLPLETLFGSGA 287

1 MRLTRLRLFSTYTKYFMYVLVSLITTSVIR--THQKPERVSVRHLEAGENPSSDI 57
 2 72 NCGSITYEQPEBLEIKG----SLEIRRDIIDLEDGYAMTSDCD1YOTLRGYAQKLVS 125
 3 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 4 58 NCTKVLQGDYNEIQKVKLUEBILITVKFKCRP--RWTDPDYINMTSDCSPIKRRXYTVEPUS 115
 5 :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 6 126 KEEKSPFLAYSLLVHDAIMVPLIHAYNQNNTYCHYDRKAPDTKVAMNLLAKCNSN 185
 7 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 8 116 KEEAEPFLAYSIVVWHTKTEMLDRILALYTMQPNFYCVHVDTSESDSVLAANGTASCSN 175
 9 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 10 186 IIFIASKLEAVEYAHISRQLADINLSLKLSS1-QWKV1NLCCQDFPIKSNFLVSDRK 245
 11 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 12 Db 176 VFIASRLESVYASWRQADINCMKDLYAMSANWKLINLNLCMDFPKTNLBIVRK,KL 235
 13 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 14 QY 246 LNGANMLETYKPPNSKLERFTYHLLRRPVYEVY- KLPPIRTNIKSEKAFFNIOQFYGSA 303
 15 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 16 Db 236 LMGENNLTETRMPSKHEERW-----KRYEYVNGKL-TNTGTVKMPLPLETPLFSGSA 287
 17 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 18 QY 304 YFVLSQAFTKYIENNNTIVDFFAWSKDQXSPDEHFWNLIRVGIGPEISRSAQ-DYSDL 362
 19 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 20 Db 288 YFVFSREYGGVYQNLKQKLMWAAQDTYSPDYLTRANSPFERQIPEVPSLPSHKYDSDM 347
 21 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 22 QY 363 QSKTRVLKRNNTYEFF----YPSCTGHRSVCTYGAELRKLQDOWHPANKFDSDYTD 417
 23 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 24 Db 348 QAVARFVKQYFQFEDSYSGAPYFFCDGTVHRSVTCIFGAGDLNMRLRKEHLFPANKFDVD 407
 25 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 26 QY 418 PILIKLCAEKLKEQ 431
 27 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
 28 Db 408 LFATIQCLDEBLRHK 421
 29 |:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|

RESULT 5
 US-08-487-069-4
 Sequence 4, Application US/08487069
 / PATENT NO. 5684334
 / GENERAL INFORMATION:
 / APPLICANT: FUKUDA, MINORU FA.
 / ADDRESS: BIERUTIZUN, MARUJI FA.
 / TITLE OF INVENTION: A NOVEL BETAL-6
 / TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE
 / TITLE OF INVENTION: LEUKOSTAIN AND A METHOD FOR CLONING PROTEINS HAVING
 / TITLE OF INVENTION: ENZYMATIC ACTIVITY
 / NUMBER OF SEQUENCES: 8
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: CAMPBELL AND FLORES
 / STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 / CITY: SAN DIEGO
 / STATE: CALIFORNIA
 / COUNTRY: USA
 / ZIP: 92122
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patent Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/487,069
 / FILING DATE:
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 07/955,041
 / FILING DATE: 01-OCT-1992
 / ATTORNEY/AGENT INFORMATION:
 / NAME: CAMPBELL, CATHERYN
 / REGISTRATION NUMBER: 31,015
 / REFERENCE/DOCKET NUMBER: P-LJ 9294
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 619-535-9001
 / TELEX/FAX: 619-535-8949
 / INSTRUCTION FOR SEQ ID NO.: 4:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 428 amino acids
 / TYPE: amino acids

; MOLECULE TYPE: protein
; US-084-406-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

28 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVSRVQDINCPDPIKTNLETRKL 235

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 116 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

RESULT 7

US-08-118-906-14

Sequence 14; Application US/08118906

Patent No. 5,485,940

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuisen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental

Title of Invention: Antigen By a Cloned Human cDNA Encoding a Member of a

Title of Invention: Beta-1, 6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/118,906

FILING DATE: 09-SEP-1993

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-8901

TELEFAX: (619) 535-8949

SEQUENCE CHARACTERISTICS:

LENGTH: 400 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-118-906-14

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 400 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-233-506-3

Query Match 36.1%; Score 863.5; DB 3; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

28 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

RESULT 6

US-09-233-506-3

Sequence 3; Application US/09233506

Patent No. 6,165,80

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Jiunn-Chern

TITLE OF INVENTION: A Beta-1, 6-N-Acetylglucosaminyltransferase That Forms

FILE REFERENCE: P-LJ 3415

CURRENT FILING DATE: 1999-01-19

NUMBER OF SEQ ID NOS: 14

SEQ ID NO: 3

SOFTWARE: Patentin Ver. 2.0

LENGTH: 428

TYPE: PRT

ORGANISM: Homo sapiens

US-09-233-506-3

Query Match 36.1%; Score 863.5; DB 3; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

28 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

Qy 428 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

Qy 428 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

Qy 428 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

Qy 428 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

Qy 428 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

Qy 418 PILIKCLAEKLEQ 431
Db 408 LFQICLDEHLRK 421

Qy 428 LKKLANTRLP -POKDILY-EYSLSTSPEVNRVTHYKDE --VRY-----EV 71
Db 1 MRTLLRRLRFLSYPTKVFMLVSLITFVLR --IHQKPFPSVRLAEQENPSSDI 57

Qy 72 NCGIYEOPPLEIGK----SLETRRDIDLEDDVVAMTSDCDIYOTLGQAQCLVS 125
Db 58 NCTKVLQGDVNIIQKVLEITLVEKFKRP -RWTDDYINMTSDCSSFIKRRRYIVEPLS 115

Qy 126 KEEKSFPIALSVLWVKDAIMVERLTHAIYNQHNTYCIVHYDRKAPDTFKVANNLAKCFSN 185
Db 126 KEEAEPPLAYSVWVKHKTMLDRLLRAIMTYPQNFYCVHYDTKSEDSYLAANGTASCFN 175

Qy 186 IFTASLKEAVEAHISRLQADLNUCSDLUKSSIONKYVNLCCGDFPLKSNPLFVSELIK 245
Db 176 VFTASRLESVTVASWERSVQDINCKDLYAMSATAKYLINLCCMDFP-LKTNLETRKL 235

Qy 246 INGANLLETVKPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 303
Db 236 LGENNLETERMPNSKLERFTYHHLRVPYEVY--KLPIRTNISKAPPNQIQFVGSA 287

Qy 304 YFVLSQAFVTKTFNNSTVQDEFANRDTSPDHEFWATLIRVCPGEISRAQ-DVSDL 362
Db 288 YFVVSRETVGTVLQEKGTYEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 347

Qy 363 QSKTRLVKWNTEGFF----YPSCTGSHSURVSYGAELRNLKDGMPANKFDSKVD 417
Db 348 QAVARFYKMQTEPGDVSKGAPYPPCDGVHRSVCLFGAGDLNMLRKHFLANKFDVD 407

RESULT 8
US-08-486-196-14
Sequence 14, Application US/08486196
; Patent No. 571420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; ADDRESS: Campbell and Flores
; CITY: San Diego
; STATE: California
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,196
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryna A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-486-196-14

Db 70 SCKEYLTQSHVITAPSLKEPADFPLAYINVIHHEDTFARLFRAYMPNQIVCHYDEK 129
Qy 168 ADPTEFKVAMNLIAKCFSNITIASKLCEAVEYEAHISPLQADNLCSLDLKSSIONKXYVINLC 227
Db 130 ATTEFKDAVEQLSCPNFLASKMEPKVYGGISRLLOADNLCRDLSAFEVWKYINTC 189
Qy 228 GDFPLKSNEFLVSELEKCLNGANMLETVKPPNSKLERFTY-HHELRVRYPEYTKLPRTN 286
Db 190 GDFPLKTKRKEVQYLKGFKCRKNITPGVLPAHAIGRTXVQHDLGKELSTV---IRTT 246
Qy 287 ISKEAAPHNIIQTFVGAYFVLSQAFKYIIFNNSYQDFFAWSKDTYSDEHTWATLIRVP 346
Db 247 ALKKPPPHNTLYTGFSGAYVALSREPANFYVLHDPRAVDILQWSKDTFSDEHTWATLIRP 306
Qy 347 GIPGEISRSAAQVDLSQSKTRKLSQSKTRKLVKNTYEGFFPSCTGSHSRVSCLYGAERLRLIKDGH 406
Db 307 GPGSMVNAS----WTGNLRAIKWSMDM-RHGGCHGHTYAGICLYGNDLKLNVNSPS 360
Qy 407 WFANKFDISKVDPFLIKLCAKELEQQR 433
Db 361 LFANKFBNTLYTFLVTECL--ELRHRR 385

RESULT 9
US-08-486-135-14
Sequence 14, Application US/08486135
; Patent No. 576610
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; ADDRESS: Campbell and Flores
; CITY: San Diego
; STATE: California
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryna A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-486-135-14

Query Match Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

Query Match Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

108 SPCDIYOTLRYQAQKLVSKEEKSFPPIASLYVVKDAIMVERLTHAIYNQHNTYCHYDRK 167

RESULT 10
 Qy US-08474-065-14 Application 14, Sequence 14, Application US/08474065
 Db ; Patent No. 5830465
 ; GENERAL INFORMATION:
 ; APPLICANT: Bierhuzen, Marti F.A.
 ; TITLE OF INVENTION: Expression of the Developmental I Antigen By a Cloned Human cDNA Encoding a Member of a Gene Family
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSE: Campbell and Flores
 ; STREET: 4310 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: { US/08/474,065
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/118,906
 ; FILING DATE: 09-SEP-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Kathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9349
 ; TELEFAX: (619) 535-9001
 ; INFORMATION FOR SEQ ID NO: 14:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 400 amino acids
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein

RESULT 11
 US-09-233-506-4
 ; Sequence 4, Application US/09233506
 ; Patent No. 6136580
 ; GENERAL INFORMATION:
 ; APPLICANT: Fukuda, Minoru
 ; ATTORNEY/AGENT INFORMATION:
 ; Yeh, Jium-Chern
 ; TITLE OF INVENTION: A Beta-1,6-N-Acetylglucosaminyltransferase That Forms Glycogen
 ; FILE REFERENCE: P-LJ 3415
 ; CURRENT APPLICATION NUMBER: US/09/233,506
 ; CURRENT FILING DATE: 1999-01-19
 ; NUMBER OF SEQ ID NOS: 14
 ; SEQ ID NO 4
 ; LENGTH: 400
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-233-506-4

Query Match Score 711; DB 3; Length 400;
 Best Local Similarity 43.7%; Pred. No. 3.e-61;
 Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

Qy 108 SDCDIYQTLLRGYAQLVSKSKEEPIASLVLVHDAIMVERLIHAYNOHNTYCHYDRK 167
 Db 70 SSCKEYLQSHYTAPLSKEEADPPLAYMVIHHFDTPARIFRATIMPOHYCVADEK 129
 Qy 168 APDTFKVAMNLAKCSNFIASKLEAVEYAHISRLLOADINCLSDILKSSIONKPYTNLC 227
 Db 130 ATTEFDQDAVEQOLLSCFPNAFLASMEPVVYGGISRLQDNLICRDLSAFESVSWKYINTC 189
 Qy 228 GODFPLKSNEFLYSELKUNGAMLETVPKPKSLKRFTY-HHELRVPPYETVKLPIRTN 286
 Db 190 QDFPLKTNKEIVYQLGPKGKNITPGVLPAAIGTKYHQEHLGKELSTV--IRTT 246
 Qy 287 ISKEAAPHNIOIIFYGSAYFVLSQAFVKIENNISIVQDEFAWSXDTYSRDEHFWATLIRVP 346
 Db 247 ALKPPPHNTTIVFSAYVNLSSPANPFLHDPRAVDLQWSKDTSPDEFWATLIRVP 306
 Qy 347 GIPGETRSRASQDVSPDLSQSKTRLYKVNNTYEGFFYPSCTGSHLRSVCITYGAELRLWLIKDH 406
 Db 307 GVPGSMNPNAS----WTGNIRAIKWSDMED-RHGGCHGHYVGICITYGNGDLKWLNVNSPS 360
 Qy 407 WFANKEDSKVDPLIKLCAEKLBEQQR 433
 Db 361 LFANKFELNTYPLTVBCL--ELRHRR 385

Query Match Score 711; DB 3; Length 400;
 Best Local Similarity 43.7%; Pred. No. 3.e-61;
 Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

Qy 108 SDCDIYQTLLRGYAQLVSKSKEEPIASLVLVHDAIMVERLIHAYNOHNTYCHYDRK 167
 Db 70 SSCKEYLQSHYTAPLSKEEADPPLAYMVIHHFDTPARIFRATIMPOHYCVADEK 129
 Qy 168 APDTFKVAMNLAKCSNFIASKLEAVEYAHISRLLOADINCLSDILKSSIONKPYTNLC 227
 Db 130 ATTEFDQDAVEQOLLSCFPNAFLASMEPVVYGGISRLQDNLICRDLSAFESVSWKYINTC 189
 Qy 228 GODFPLKSNEFLYSELKUNGAMLETVPKPKSLKRFTY-HHELRVPPYETVKLPIRTN 286
 Db 190 QDFPLKTNKEIVYQLGPKGKNITPGVLPAAIGTKYHQEHLGKELSTV--IRTT 246
 Qy 287 ISKEAAPHNIOIIFYGSAYFVLSQAFVKIENNISIVQDEFAWSXDTYSRDEHFWATLIRVP 346
 Db 247 ALKPPPHNTTIVFSAYVNLSSPANPFLHDPRAVDLQWSKDTSPDEFWATLIRVP 306
 Qy 347 GIPGETRSRASQDVSPDLSQSKTRLYKVNNTYEGFFYPSCTGSHLRSVCITYGAELRLWLIKDH 406
 Db 307 GVPGSMNPNAS----WTGNIRAIKWSDMED-RHGGCHGHYVGICITYGNGDLKWLNVNSPS 360
 Qy 407 WFANKEDSKVDPLIKLCAEKLBEQQR 433
 Db 361 LFANKFELNTYPLTVBCL--ELRHRR 385

RESULT 12
US-08-118-906-4

Sequence 4, Application US/08118906
GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental I

Title of Invention: Antigen By a Cloned Human cDNA Encoding a Member of a

Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,196

FILING DATE: 09-SEP-1993

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/118,906

FILING DATE: 09-SEP-1993

ATTORNEY/AGENT INFORMATION:

Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE DOCKET NUMBER: P-LJ 9526

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 126 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-486-196-4

Query Match Score 16.0%; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8-2e-30;
Matches 69; Conservative 23; Mismatches 34;
Indels 0; Gaps 0;

Qy 119 YAQKLVSKERSPPIASLKEAVYAHISRLLOADNLCSPLIKKSYVHDAIMVERLHAYNQNTIYCHYDRKAPDPFKVANN 178
Db 1 YIVEPLSKEEAFPIASLKEAVYAHISRLLOADNLCSPLIKKSYVHDAIMVERLHAYNQNTIYCHYDRKAPDPFKVANN 178

RESULT 13
US-08-118-906-4

Sequence 4, Application US/08486135

Patent No. 576910

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a

Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fukuda, Minoru

ATTORNEY/AGENT INFORMATION:

Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental I

Title of Invention: Antigen By a Cloned Human cDNA Encoding a Member of a

Title of Invention: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US-08/488,135
FILING DATE: 4/24
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-9949
SEQUENCE CHARACTERISTICS:
LENGTH: 126 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULAR TYPE: protein

RY Match	16.0%	Score 383; DB 1;	Length 126;
Local Similarity	54.8%	Pred. No. 8.2e-30;	
Conservative	23;	Mismatches	34;
Matches	69;	Indels	0;
Gaps	0;		
119 YAQKLVSKEEKSPPIAYSLVWHDKAIVVERLTHAYNORTYCHYDRKAPDTKVKANN	178		
1 YIVEPLSCEAEPIAVSVVHKIEMLDLRLLRAYMPQNFIYCIVDTSKEDSLAANG	60		
179 LAKGSNFIASKELEAVEYAHISRLQADINCLSDLIKSS1QKTYVINLGQDDEPKNSFE	238		
61 IASFSXNFVASLLESVYASRSVYQADLNCKMDLYAMSANKVYLNLGMDFPKTNLE	120		
239 LVSPLK	244		
121 TPTVLY	126		

SUIT 15
- 08-474-065-4
Sequence 4, Application US/08474065
Patient No. 5830465

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental I Gene Encoding a Member of a Cloned Human cDNA Encoding a Member of a Gene Family

TITLE OF INVENTION: Antigen By A Cloned Human cDNA Encoding a Member of a Gene Family

TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/474,065

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/118,906

FILING DATE: 09-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Carrlyn A.
REGISTRATION NUMBER: 31, B15
REFERENCE/DOCKET NUMBER: P-LJ 9526

Result No.	Score	Query Match Length DB ID	Description	Summaries
1	2389	100.0 453 12 US-10-388-307-2	Sequence 2, Appl1	
2	2389	100.0 453 15 US-10-084-406-2	Sequence 2, Appl1	
3	2389	100.0 1104 9 US-09-793-98-11	Sequence 11, Appl1	
4	1989.5	83.1 455 9 US-09-793-98-8	Sequence 8, Appl1	
5	868	36.3 438 9 US-09-874-390-2	Sequence 2, Appl1	
6	868	36.3 438 9 US-09-797-207-2	Sequence 2, Appl1	
7	868	36.3 438 10 US-09-981-353-44	Sequence 44, Appl1	
8	868	36.3 438 12 US-10-388-307-15	Sequence 15, Appl1	
9	868	36.3 438 15 US-10-084-406-15	Sequence 15, Appl1	
10	868	36.3 465 15 US-10-106-698-8832	Sequence 5832, Appl1	
11	868	36.3 663 9 US-09-797-207-4	Sequence 4, Appl1	
12	866	36.2 465 9 US-09-925-297-96	Sequence 76, Appl1	
13	863.5	36.1 428 9 US-09-977-207-14	Sequence 14, Appl1	
14	863.5	36.1 428 12 US-10-388-307-13	Sequence 13, Appl1	
15	863.5	36.1 428 15 US-10-084-406-13	Sequence 13, Appl1	

Db 121 QCLVSKBEKSPIAYSLVVKDAINVERLIAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 180
 Qy 181 KCFSNITIASKEAKEYAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 240
 Db 181 KCFSNITIASKEAKEYAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 240
 Qy 241 SELKKINGANMLETVPNSKLERFYHHLRVPYEYKLPLRTNTSKEAPPHNQIFV 300
 Db 241 SELKKINGANMLETVPNSKLERFYHHLRVPYEYKLPLRTNTSKEAPPHNQIFV 300
 Qy 301 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 360
 Db 301 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 360
 Qy 361 DLQSKTRLYKNTYEGFPYPSCTGSHLSRVCYGAELRMILKDGHWFANKFDKVDPIL 420
 Db 361 DLQSKTRLYKNTYEGFPYPSCTGSHLSRVCYGAELRMILKDGHWFANKFDKVDPIL 420
 Qy 421 IKCLAEKLEEEQDWTLPSEKLFMDRNLTTS 453
 Db 421 IKCLAEKLEEEQDWTLPSEKLFMDRNLTTS 453

RESULT 2

US-10-084-406-2
 ; Sequence 2, Application US/10084406
 ; Publication No. US20030054525A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Schwientek, Tilo
 ; INVENTION: UPP-N-acetylglucosamine:
 ; TITLE OF INVENTION: Galactose-beta,3-N-Acetylglactosamine-alpha-R / (G1CNAC
 ; TITLE OF INVENTION: to GaNAc)
 ; FILE REFERENCE: 4503 /1031
 ; CURRENT APPLICATION NUMBER: US/10/084,406
 ; CURRENT FILING DATE: 2002-02-25
 ; PRIOR APPLICATION NUMBER: 09/645,192
 ; PRIOR FILING DATE: 2000-08-24
 ; NUMBER OF SEQ ID NOS: 17
 ; SEQ ID NO: 2
 ; LENGTH: 453
 ; SOFTWARE: FASTSEQ for Windows Version 3.0
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-10-084-406-2

Query Match

Score 100.0%; DB 15; Length 453;

Best Local Similarity 100.0%; Pred. No. 3_98-219; Indels 0; Gaps 0;

Matches 453; Conservative 0; Mismatches 0; Insertions 0; Deletions 0;

Query 1 MKIFKCYFKHTLQKVFILPLTLWISLKLNTYRFLQDYLVEYSLSTSFPVNRY 60

Db 1 MKIFKCYFKHTLQKVFILPLTLWISLKLNTYRFLQDYLVEYSLSTSFPVNRY 60

Qy 61 THYKDEVRYEYNCSGIVYQEPEIGKSLEIRRDIIDDDYVAMTSDCDIYQTLRGYA 120

Db 61 THYKDEVRYEYNCSGIVYQEPEIGKSLEIRRDIIDDDYVAMTSDCDIYQTLRGYA 120

Qy 121 QLVSKBEKSPIAYSLVVKDAINVERLIAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 180

Db 121 QLVSKBEKSPIAYSLVVKDAINVERLIAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 180

Qy 181 KCFSNITIASKEAKEYAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 240

Db 181 KCFSNITIASKEAKEYAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 240

Qy 241 SELKKINGANMLETVPNSKLERFYHHLRVPYEYKLPLRTNTSKEAPPHNQIFV 300

Db 241 SELKKINGANMLETVPNSKLERFYHHLRVPYEYKLPLRTNTSKEAPPHNQIFV 300

Qy 301 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 360

Db 360 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 360

RESULT 3

Sequence 11, Application US/09793998

Patent No. US20020045202A1

GENERAL INFORMATION:

APPLICANT: KORCZAK, BOZENA

APPLICANT: LEW, APRIL

TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE

TITLE OF INVENTION:

GENE:

FILE REFERENCE: GLYCO-16

CURRENT APPLICATION NUMBER: US/09/793,998

CURRENT FILING DATE: 2001-02-28

PRIOR APPLICATION NUMBER: 60/185,702

NUMBER OF SEQ ID NOS: 11

SEQ ID NO: 11

TYPE: PRT

ORGANISM: Homo sapiens

US-09-793-998-11

Query Match 100.0%; DB 9; Length 1104;

Best Local Similarity 100.0%; Pred. No. 1_5-218; Indels 0; Gaps 0;

Matches 453; Conservative 0; Mismatches 0; Insertions 0; Deletions 0;

Query 1 MKIFKCYFKHTLQKVFILPLTLWISLKLNTYRFLQDYLVEYSLSTSFPVNRY 60

Db 273 MKIFKCYFKHTLQKVFILPLTLWISLKLNTYRFLQDYLVEYSLSTSFPVNRY 332

Qy 61 THYKDEVRYEYNCSGIVYQEPEIGKSLEIRRDIIDDDYVAMTSDCDIYQTLRGYA 120

Db 333 THYKDEVRYEYNCSGIVYQEPEIGKSLEIRRDIIDDDYVAMTSDCDIYQTLRGYA 392

Qy 121 QLVSKBEKSPIAYSLVVKDAINVERLIAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 180

Db 393 QLVSKBEKSPIAYSLVVKDAINVERLIAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 452

Qy 181 KCFSNITIASKEAKEYAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 240

Db 453 KCFSNITIASKEAKEYAHISRLQDNLCSDLKSSIONKTYTNLCQDFPKSNFELV 512

Qy 241 SELKKINGANMLETVPNSKLERFYHHLRVPYEYKLPLRTNTSKEAPPHNQIFV 300

Db 513 SELKKINGANMLETVPNSKLERFYHHLRVPYEYKLPLRTNTSKEAPPHNQIFV 572

Qy 301 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 360

Db 573 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 632

Qy 361 DLQSKTRLYKNTYEGFPYPSCTGSHLSRVCYGAELRMILKDGHWFANKFDKVDPIL 420

Db 633 DLQSKTRLYKNTYEGFPYPSCTGSHLSRVCYGAELRMILKDGHWFANKFDKVDPIL 692

Qy 421 IKCLAEKLEEEQDWTLPSEKLFMDRNLTTS 453

Db 693 IKCLAEKLEEEQDWTLPSEKLFMDRNLTTS 725

RESULT 4

US-09-793-998-8

Sequence 8, Application US/09793998

Qy 301 GSAYFVLQSQFKYIIFNNSIYDFFFAWSKDTYSDEHFATLIRPGIPGEISRSQAQDVS 360

Patent No.	US200420045202A1
GENERAL INFORMATION:	
APPLICANT:	KORCZAK, BOZENA
ATTORNEY:	LEW, APRIL
TITLE OF INVENTION:	NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
FILE REFERENCE:	GLYCO-16
CURRENT APPLICATION NUMBER:	US/09/793,998
CURRENT FILING DATE:	2001-02-28
PRIOR APPLICATION NUMBER:	60/185,702
PRIOR FILING DATE:	2000-02-29
NUMBER OF SEQ ID NOS.:	11
SOFTWARE:	PatentIn Ver. 2.1
SEQ ID NO:	8
LENGTH:	455
TYPE:	prt
ORGANISM:	Mus sp.
US-09-793-998-8	
Query Match	83.1%; Score 1985.5; DB 9; Length 455;
Best Local Similarity	82.8%; Fred. No. 1.3e-180;
Matches	370; Conservative 35; Mismatches 41; Indels 1; Gaps
2y	1 MKIFKCYFKHTLQQKVFFILFLTWLSLKLNLLY-RRLPQDYLVEYLVEYLTSSTSPFVRNR 59
Db	1 MKIFRCCPKYTKLQQKFILLTWTLSLKLNLLY-RRLPQDYLVEYLVEYLTSSTSPFVRNR 60
2y	60 YTHVKDDEVRYEVNCSGIVQEPLTEGKSLEIRRDIDLEDDPVAVTSDCDIYOTLRGY 111
Db	61 PESGDAARDVNNGSGVYEHPELGKSLEIRRASIIDEDGGDVAVTSDCDIVQTQRQY 121
2y	120 ACKLVSKBEEKSFPPIASLYVHKDAIMVERLIAHAYNCHNIYCHYDRKAQDTFKVAMNL 171
Db	121 HEKLVERBEEDEPIASLYVHKDAIMVERLIAHAYNCHNIYCHYDLSPDFTFKVAMNL 181
2y	180 AXCFNSFIASKLBEAVYAHMSRQADNLCSDLIKSSQWCKVINYLGQDPPLKSNFEL 231
Db	181 ARCPNFIASKLKEYEAYISRLQADWNCLSDLIKSSQWCKVINYLGQDPPLKSNFEL 241
2y	240 VSELKKLNGANNLETVPKPNASKLERPTYHELRVPPVYETVKLIRTMISKEAPPNTIQF 291
Db	241 VTELKSQGRNMLETVPKPNASKLERPTYHELRVPPVYDYMCKLFVKTIVSKGAPPRNIVQF 301
2y	300 VGSAYFVLQSQAFVKYTFNNSIQDFAWSKDTYPSCTGSHLPSVC1YGAELRMLIKDGMWFAKNDPSKVDPI 351
Db	301 VGSAYFVLQSRAFVKYTFNNSLVEDFAWSKDTYPSDEHWFATIRIPIGPGGSSSQDV 361
2y	360 SLDQSKTRLVKWWNYEGFFFPSCTGSHLPSVC1YGAELRMLIKDGMWFAKNDPSKVDPI 411
Db	361 SLDQSKTRLVKMFYEGFLPNCTGSHLPSVC1YGAELRMLIKDGMWFAKNDPSKVDPI 421
2y	420 LTKCLAEKLELQQQRDWTLPSEKLFMD 446
Db	421 LMKCLAEKLELQQQLLIALSSEKMTB 447
RESULT 5	US-09-874-390-2
	Sequence 2, Application US/09874390
	Patent No. US200420045202A1
GENERAL INFORMATION:	
APPLICANT:	CLAUSEN, HENRIK
TITLE OF INVENTION:	UDP-N-Acetylglucosamine:
TITLE OF INVENTION:	Galactose-beta-1,3-N-Acetylgalactosamine-alpha-R / -al-
TITLE OF INVENTION:	N-Acetylglucosamine-beta-1,3-N-Acetylgalactosamine - al-
TITLE OF INVENTION:	a-(R GlcNAc)
TITLE OF INVENTION:	beta-1,6-N-Acetylglucosaminyltransferase, C2/4
FILE REFERENCE:	P199801704 WO JNV
CURRENT APPLICATION NUMBER:	US/09/874,390
CURRENT FILING DATE:	2001-06-04
PRIOR APPLICATION NUMBER:	DK PA 1998 01605
PRIOR FILING DATE:	1998-12-04
NUMBER OF SEQ ID NOS.:	10

Query 23 LWLISLKLINTV-----RRLPQKDIYLVEYSLSTSPPFVRN-RYTHVKDEDEVYEVNCSSG 75
 Database 13 LWALGYCMLLATVALKUSFRLCDSDLGLRSRESOYERNLYNFLKPARKSNTNSG 72
 Query 76 IY--EQEPL--EIGKSLLEIRRDIIIDLEDDVVAMTSDCDIYQTLRGQAQKLYSKEEKSP 131
 Database 73 VTRGDOAVLQALNNLEVKKR-EPTTDTHYLSTRDCEHFKERKTFQFPLSKEEVFP 131
 Query 132 PIAYSVHDKAIMVERLHAINQNTICHYDRAKDPDFTKVNANLAKCFNITFLASK 191
 Database 132 PIAYSVHDKAIMVERLHAINQNTICHYDRAKDPDFTKVNANLAKCFNITFLASK 191
 Query 192 LEAVEYAHISRLOADINCLSDULKSSQWYVNLQGQDFPLKSNEFVYSELCKLNGANM 251
 Database 192 LEAVEYAHISRLOADINCLSDULKSSQWYVNLQGQDFPLKSNEFVYSELCKLNGANM 251
 Query 252 LEVTKPPNSKLERPTYHELRVPPYBVKLPRTNTISKEAPPNTOQFVGSAFVFLSOAF 311
 Database 252 MESEVPPXHKETRKWKFEEVVR--DTLHL--TNKKKDPPYNLTMTFGNAYIVASRDF 305
 Query 312 VKYIFNNSIVODAFFANSKDTYSDEHEWATLIRVPGPGET-SRSAQDVSFLQSCTRLYK 370
 Database 305 VQHVLKNPKSQOLIEWWDYTSDEHLWATLQRAWMGPVNPBKVDISDMWSIARLVK 365
 Query 371 WNYTEGGF----YPSCTGSHSRVSCVYGAELRNLKDGHWANKEDSKVDPFLIKCLA 425
 Database 366 WQHEDDIDKRGAPYAPCSGIHQRAICVYGAIDLWNLQNHILLANKFDPKDDNALQCLE 425
 Database 426 EYL 428
 Database 426 EYL 428

RESULT 8
 US-10-388-307-15
 Sequence 15 Application US/10388307
 Publication No. US20030180778A1
 GENERAL INFORMATION:
 APPLICANT: Schonertek, Tilo
 APPLICANT: Clausen, Henrik
 TITLE OF INVENTION: UDP-N-Acetylglucosamine:
 TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GlcNAc
 TITLE OF INVENTION: to GalNAc) Detal, 6-N-Acetylglucosamineyltransferase, C2GnT3
 FILE REFERENCE: 450/1601
 CURRENT APPLICATION NUMBER: US/10/388,307
 CURRENT FILING DATE: 2003-03-13
 PRIOR APPLICATION NUMBER: US/09/645,192
 PRIOR FILING DATE: 2000-08-24
 PRIOR APPLICATION NUMBER: US 60/150,488
 PRIOR FILING DATE: 1999-08-24
 NUMBER OF SBO ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 15
 LENGTH: 438
 TYPE: PRT
 ORGANISM: Human
 US-10-388-307-15

Query Match 36.3%; Score 868; DB: 12; Length 438;
 Best Local Similarity 43.0%; Pred. No. 5.2e-74; Indels 24; Gaps 9;
 Matches 18; Conservative 71; Mismatches 146;

Query 23 LWLISLKLINTV-----RRLPQKDIYLVEYSLSTSPPFVRN-RYTHVKDEEVNCSSG 75
 Database 73 VTRGDOAVLQALNNLEVKKR-EPTTDTHYLSTRDCEHFKERKTFQFPLSKEEVFP 131
 Query 76 IY--EQEPL--EIGKSLLEIRRDIIIDLEDDVVAMTSDCDIYQTLRGQAQKLYSKEEKSP 131
 Database 13 LWALGYCMLLATVALKUSFRLCDSDLGLRSRESOYERNLYNFLKPARKSNTNSG 72
 Query 132 PIAYSVHDKAIMVERLHAINQNTICHYDRAKDPDFTKVNANLAKCFNITFLASK 191
 Database 132 PIAYSVHDKAIMVERLHAINQNTICHYDRAKDPDFTKVNANLAKCFNITFLASK 191
 Query 192 LEAVEYAHISRLOADINCLSDULKSSQWYVNLQGQDFPLKSNEFVYSELCKLNGANM 251
 Database 192 LEAVEYAHISRLOADINCLSDULKSSQWYVNLQGQDFPLKSNEFVYSELCKLNGANM 251
 Query 252 LEVTKPPNSKLERPTYHELRVPPYBVKLPRTNTISKEAPPNTOQFVGSAFVFLSOAF 311
 Database 252 MESEVPPXHKETRKWKFEEVVR--DTLHL--TNKKKDPPYNLTMTFGNAYIVASRDF 305
 Query 312 VKYIFNNSIVODAFFANSKDTYSDEHEWATLIRVPGPGET-SRSAQDVSFLQSCTRLYK 370
 Database 306 VQHVLKNPKSQOLIEWWDYTSDEHLWATLQRAWMGPVNPBKVDISDMWSIARLVK 365

RESULT 9
 US-10-084-406-15
 Sequence 15, Application US/10084406
 Publication No. US2003005425A1
 GENERAL INFORMATION:
 FILE REFERENCE: PA05P1
 CURRENT APPLICATION NUMBER: US/10/106,698
 CURRENT FILING DATE: 2002-03-27
 PRIOR APPLICATION NUMBER: PCT/US00/26524
 PRIOR FILING DATE: 2000-09-28
 PRIOR APPLICATION NUMBER: US 60/157,137
 PRIOR FILING DATE: 1999-09-29
 PRIOR APPLICATION NUMBER: US 60/163,280
 PRIOR FILING DATE: 1999-11-03
 NUMBER OF SEQ ID NOS: 8564
 SOFTWARE: PatentIn Ver. 3.0
 SEQ ID NO 5832
 LENGTH: 465
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-084-406-15
 Query Match 36.3%; Score 868; DB 15; Length 465;
 Best Local Similarity 43.0%; Pred. No. 5.7e-74;
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;
 Qy 23 IWLISLKLINV----RRLPQDIDVVEYSLSTSPPVNR-RYTHVKDEVYETNCSG 75
 Db 13 IWLGYMLLATVALKLSPLRKCDSDHGLSERSSOSOYCRNLNFKLAKRSINCSG 72
 Qy 76 IV--E0EPL--EIGKSLBIRRDIIDLEDVVAMTSDDCDIYOTLRGKQQLVKEEKF 131
 Db 73 VTRGDQEAVLQIAILNLVEKKR-EPTFTDTHYLSTRDCEPKAERFIOPPLSKEEVF 131
 Qy 132 PIAYSLVHHDIAIMVERLILRRAVAPNIVCVRDERSPEFRAVIALSCFPRVFLASK 191
 Db 12 PIAYSVTHEKLENFELLRAVAPNIVCVRDERSPEFRAVIALSCFPRVFLASK 191
 Qy 132 PIAYSLVHHDIAIMVERLILRRAVAPNIVCVRDERSPEFRAVIALSCFPRVFLASK 191
 Db 12 PIAYSVTHEKLENFELLRAVAPNIVCVRDERSPEFRAVIALSCFPRVFLASK 191
 Qy 192 LEAVEYAHISRLQDNLNSDLIKSSTQVYKVNLCGDFPLKSNPFLVSEIKKGANGM 251
 Db 192 LRVVYASWSRVAQDNCMDLQSQVPKTFINTCGDFFPKSNAEMVQALQMLNGNS 278
 Qy 252 LETVKPPNSKLERETYHHLRDPYVYKLPITUNISKEAPPNIOFVGSAFYFLVSQAF 311
 Db 252 MESEVPKPKRETWKCFEVVR--DTHL--TNKCKDPPPNLMTGNAIVASRDF 305
 Qy 312 YKXIFNNSIIVDFFAWSKOTYSPDEKFWATLIRYPCGICB1-SRSAQDVSDLQSKTRVYK 370
 Db 306 VQHVLPKPSQOLIENVKDTPDHLWATLQARWNGSVPHPKYDSDNTSTARLVK 365
 Qy 371 WNYEGFP----YPSCTGSHRSVCITYGAELRWLKDGHWFANKEDSKYDPLIKCL 425
 Db 366 WQHGEPDKGKAPYAPC5GTHQRAUCVAGDLINWMLQNHILLANKEDPKYDNNALQCL 425
 Qy 426 EKL 428
 Db 426 EYL 428

RESULT 10
 US-10-106-698-5832
 Sequence 5832, Application US/10/06698
 Publication No. US20030109690A1

SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 4
 LENGTH: 663
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Recombinant
 US-09-797-207-4

Query Match Score 36.3%; Score 868; DB 9; Length 663;
 Best Local Similarity 43.0%; Pred. No. 9.7e-74;
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

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Qy 23 LWLSSLKLNV----RRLPFDIYLVEYSLSTSPPVRN-RYTHVKDETRYEVNCSG 75
Db 97 LWLGCMYLATVALKUSFXRCDSHLGLSERESQICRNLYNFLPKRSINCSCG 156
Qy 76 IY--EQLP--EIGKSLEIRRDIIDLEDDDVAVNTSDCIVOTLRGYAKLVSKKEKSF 131
Db 157 VTRGDQEAVLQAINNLLEVCKKR--EPTDTPHLSLTDCHFKAERKFQPLSKEEVEF 158
Qy 23 LWLSSLKLNV----RRLPFDIYLVEYSLSTSPPVRN-RYTHVKDETRYEVNCSG 75
Db 97 LWLGCMYLATVALKUSFXRCDSHLGLSERESQICRNLYNFLPKRSINCSCG 156
Qy 76 IY--EQLP--EIGKSLEIRRDIIDLEDDDVAVNTSDCIVOTLRGYAKLVSKKEKSF 131
Db 157 VTRGDQEAVLQAINNLLEVCKKR--EPTDTPHLSLTDCHFKAERKFQPLSKEEVEF 158
Qy 23 LWLSSLKLNV----RRLPFDIYLVEYSLSTSPPVRN-RYTHVKDETRYEVNCSG 75
Db 97 LWLGCMYLATVALKUSFXRCDSHLGLSERESQICRNLYNFLPKRSINCSCG 156
Qy 76 IY--EQLP--EIGKSLEIRRDIIDLEDDDVAVNTSDCIVOTLRGYAKLVSKKEKSF 131
Db 157 VTRGDQEAVLQAINNLLEVCKKR--EPTDTPHLSLTDCHFKAERKFQPLSKEEVEF 158
Qy 132 PIASLYTHKDAIMVERLTHAIYNQHNIYCHYDKRAPIDEPKVAMNLAKCFSENIFASK 191
Db 216 PIASMYTHKENFERLRAVYAPONIYCVDKSPETPKRAVKALISCPNPVIFASK 275
Qy 192 LEAVEYAHISRLOADINCLSLIKKSIQWVTVINLGQDFPLKSNFELYSELKINGANN 251
Db 276 LRVVYYASWSRVOADLNCMEDILOSSVWPWKYFLNTGCTFPKNAENVQALKMLNRNS 335
Qy 252 LETVKPNSKLERFTYHLDRVPVSYVVKLPIRTNISKAPPNQIQIPVGSAWFVLSQAF 311
Db 336 MESEVPKHKERFWKHFEVYR--DTLHL--TNKKDOPPPNLTMTGNAIVTAVASRDP 389
Qy 312 VKTFNNNSIVQOFANAKDTSPDEFWATLIRVGIGEI-SRSAQDVSLSQSKTRLYK 370
Db 390 QVHVLQNKPSQOLIEWVKDTSDEHLWATLQRARWMPGVPHPKYDISDMTSLIAVUK 449
Qy 371 WNTYEGFF---YPSCTGSILRSVYGAFLRNLTKDGHWFANKFEDKVDPLIJKCIA 425
Db 450 WQSHEGDIDKGAPYAPCGSIHORALCVYGRDILNMLQNHILLANKFDPKVDNALQCL 509
Qy 426 EKL 428
Db 510 EYL 512

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RESULT 12
 US-09-925-297-796
 Sequence 796 Application US/09925297
 Patent No. US20020051659A1
 GENERAL INFORMATION:
 APPLICANT: Rosen et al.
 TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 CURRENT APPLICATION NUMBER: US/09/925297
 CURRENT FILING DATE: 2001-08-10
 PRIOR APPLICATION NUMBER: PCY/US/0/05989
 PRIOR FILING DATE: 2000-03-08
 LENGTH: 465
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NUMBER OF SEQ ID NOS: 928
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 796

Query Match Score 36.1%; Score 863.5; DB 9; Length 428;
 Best Local Similarity 43.1%; Pred. No. 1.3e-73;
 Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

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Qy 28 LWLSSLKLNV----RRLPFDIYLVEYSLSTSPPVRN-RYTHVKDETRYEVNCSG 75
Db 1 MLRTLRRRLPSPTKYMVVLVSLITPSVLR--THQKBEVSYRHLAGENPSSDI 57
Qy 72 NC5G1YEQEFLIEGK---SUBIRARDIDLEDDDVAVNTSDCIVOTLRGYAKLV 125
Db 58 NCTRYLOGDNNEIOKVKELEITVKFKEKRP--RWTPDDYINTNSDCSSFIKRRKTYVEPLS 115

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PRIOR APPLICATION NUMBER: 60/124,270
 PRIOR FILING DATE: 1999-03-12
 NUMBER OF SEQ ID NOS: 928
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 796

OTHER INFORMATION: xaa equals any of the naturally occurring L-amino acids

US-09-925-297-796

116 KEEAEPPIASIVVHHKIEMLDRLLRATYMPQNYCTVNDTKESEDSTLAAMGJACPSN 175
 186 IFIAKLEAYAHISRLQDNLNCSDLIKSSSTQWKTINLCCQDFELKSNEFYLSELKK 245
 176 VFAASBLESVIAYASISRVQDNLNCMDLYAMSANWKLNLCMDPIKTNLEIVRKKL 235
 246 LNGAMMLETVKPNKLERFTYHLLRVPYEVY-KLPIRTNISKRAPPNNIQIFVGS 303
 236 LMGENNLETMRPSKEERW-----KCRVEVNGKU-TNTGTVNLPLPPLTPLFGSA 287
 304 YFVLSQLAQVKYTFENNSIVQDFAWSKDTYSDEHEWATLIRVPGPGEISRSAQ-DVSDL 362
 288 YFVISREVGVLQNKEQKQKLMENQDTSPDELTWATQIPVPGSLPASHYDLSM 347
 QY OSKTRLYKWNTEGFF-----YPSCTGSHURSYCIGAAELRWLJKDGHWFAKFDKVD 417
 Db 348 QAVARFKWQFEGDVSKGAAHYPCDGVHTRSCVTCFGAGDLNLRKHFLANKFDVD 407
 Qy 418 PILIKCLAEKLEEQ 431
 Db 408 LPAIQCLDEHLRHK 421

RESULT 15
 US-10-084-406-13
 Qy Sequence 13, Application US/10084406
 Db Publication No. US20030054525A1
 Db GENERAL INFORMATION:
 APPLICANT: Schwientek, Tilo
 APPLICANT: Clausen, Henrik
 APPLICANT: GaiNac
 TITLE OF INVENTION: UDP-N-Acetylglucosamine;
 TITLE OF INVENTION: UDP-N-Acetylgalactoseamine;
 TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosaminyltransferase, C2GnT3
 TITLE OF INVENTION: 6-N-Acetylglucosaminyltransferase, C2GnT3
 NUMBER OF SEQ ID NOS: 17
 CURRENT APPLICATION NUMBER: US/10/084,406
 CURRENT FILING DATE: 2002-02-25
 PRIOR APPLICATION NUMBER: US/10/084,406
 PRIOR FILING DATE: 2000-08-24
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 13
 Qy LENGTH: 428
 TYPE: PRT
 ORGANISM: Human
 US-10-084-406-13

RESULT 14
 US-10-388-307-13
 ; Sequence 13, Application US/10388307
 ; Publication No. US20030180778A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Schwientek, Tilo
 ; APPLICANT: Clausen, Henrik
 ; TITLE OF INVENTION: UDP-N-Acetylglucosamine;
 ; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylgalactoseamine-alpha-R / (GLCNAC
 ; TITLE OF INVENTION: Glactose-beta1,6-N-Acetylglucosamine;
 ; TITLE OF INVENTION: to GaiNac) beta1,6-N-Acetylglucosaminyltransferase, C2GnT3
 ; FILE REFERENCE: 4503/1G031
 ; CURRENT APPLICATION NUMBER: US/10/388,307
 ; CURRENT FILING DATE: 2003-03-13
 ; PRIOR APPLICATION NUMBER: US/09/645,192
 ; PRIOR FILING DATE: 2000-08-24
 ; PRIOR APPLICATION NUMBER: US/60/150,488
 ; PRIOR FILING DATE: 1999-01-24
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; LENGTH: 428
 ; TYPE: PRT
 ; ORGANISM: Human
 US-10-388-307-13

Query Match Score 863.5; DB 12; Length 428;
 Best Local Similarity 43.1%; Pred. No. 1.3e-73; Indels 43; Gaps 12;
 Matches 187; Conservative 72; Mismatches 132; Delins 43; Gaps 12;

Qy 28 LIKLINVRRLF-PQDIYL-EYSISPTSPVRYHVD-B---VRY----EV 71
 Db 1 MIRTLLARRLPSYPTKYENTVVLSLITSVR---THQPEFVSVHLEAGENPSSDI 57
 Qy 72 NCSGIYEQEPLIGK-----SLEIRRDIIDLEDDVYMTSPCDIYOTLRGAQKLVS 125
 Db 58 NCTKVQGDVNEIQVKLEITVAFKGRP-RWTPDDIINMTSDSFPKRRKIVPELS 115
 Qy 126 KEBKSEPTAYSLVYHEDAIYVERLTHAIYNQHNYCIIHYDRKAPDTPEKAMNLAKCPSN 185
 Db 116 KEEAEFPAYTSVHIERLMDRLLRATYQPNFPCVAYDTKSDSLAAVMGJACPSN 175
 Qy 186 IFIASKEBNTAHISQLQALINCSDLKSISQKMYTINCGDDEPKNSTEVSELK 245
 Db 176 VFAASBLESVIAYASISRVQDNLNCMDLYAMSANWKLNLCMDPIKTNLEIVRKKL 235
 Qy 246 LNGAMMLETVKPNKLERFTYHLLRVPYEV-KLPIRTNISKRAPPNNIQIFVGS 303
 Db 236 LMGENNLETMRPSKEERW-----KRYEVYNGKL-TNTGTVNLPLPPLTPLFGSA 287
 Qy 286 YFVLSQLAQVKYTFENNSIVQDFAWSKDTYSDEHEWATLIRVPGPGEISRSAQ-DVSDL 362
 Db 288 YFVISREVGVLQNKEQKQKLMENQDTSPDELTWATQIPVPGSLPASHYDLSM 347
 Qy 363 OSKTRLYKWNTEGFF-----YPSCTGSHURSYCIGAAELRWLJKDGHWFAKFDKVD 417
 Db 348 QAVARFKWQFEGDVSKGAAHYPCDGVHTRSCVTCFGAGDLNLRKHFLANKFDVD 407
 Qy 418 PILIKCLAEKLEEQ 431
 Db 408 LPAIQCLDEHLRHK 421

Search completed: January 30, 2004, 13:03:36
Job time : 41 secs